IFTM UNIVERSITY
(Established under UP Govt. Act No. 24 of 2010 and approved under section 2(f) of UGC Act 1956)
Lodhipur Rajput, Delhi Road, Moradabad- 244102, U.P.
Telephone: 0591-2360817, 2360818 Email: info@iftmuniversity.ac.in Website: www.iftmuniversity.ac.in

Annexure 1

Certificate of Registration of Society

प्रारूप-9
नियम 8(2) देखिये

संख्या 01418/2022-2023

दिनांक 27/09/2022

सोसाइटी के नवीनीकरण का प्रमाण-पत्र

(अधिनियम संख्या 21, 1860 के अधीन)

नवीनीकरण
संख्या:R/MOR/10717/2022-2023

पत्रावली संख्या:MBD-17512 दिनांक:2007-2008

एतदद्वारा प्रमाणित किया जाता है कि **Institute of Foreign Trade Management Society, IFTM University Lodhipur Rajput Delhi Road Moradabad, मुरादाबाद , 244102** को दिये गये रजिस्ट्रीकरण प्रमाण-पत्र संख्या- 722/2007-08 दिनांक-13/09/2007 को दिनांक-13/09/2022 से पांच वर्ष की अवधि के लिए नवीनीकृत किया गया है ।

1100 रूपये की नवीनीकरण फ़ीस सम्यक् रूप से प्राप्त हो गयी है ।

Digitally Signed By
(BHUPENDRA KUMAR SINGH)
C8E231DE28941E44C917C26AC613A4907267C7F1
Date: 27/09/2022 5:05:28 PM, Location: Moradabad.

जारी करने का दिनांक-27/09/2022

सोसाइटी के रजिस्ट्रार,
उत्तर प्रदेश ।

Sanjeev Agrawal
REGISTRAR
IFTM UNIVERSITY
MORADABAD

संख्या 4189
13/12/12

सोसाइटी के नवीकरण का प्रमाण-पत्र

नवीकरण संख्या- MRD-901--------2012.

फाइल संख्या MRD-17512----

एतद्द्वारा प्रमाणित किया जाता है कि- इन्स्टीच्यूट ऑफ फोरेन ट्रेड मैनेजमेन्ट सोसाइटी लोधीपुर राजपूत दिल्ली रोड मुरादाबाद

----------को दिये गये रजिस्ट्रीकरण प्रमाण-पत्र संख्या- 729/2007-2008.

दिनांक- 13-09-2007 को दिनांक- 13-09-2012 से पांच वर्ष

की अवधि के लिए नवीकृत किया गया है।

1000 रूपये की नवीकरण फीस सम्यक् रूप से प्राप्त हो गयी है।

दिनांक- 24-09-2012

सोसाइटी के रजिस्ट्रार,
उत्तर प्रदेश ।

सेक्रेटरी
प्रेसीडेन्ट

Sanjeev Agrawal
REGISTRAR
IFTM UNIVERSITY
MORADABAD

संस्थाः– इंस्टीट्यूट ऑफ़ फॉरेन ट्रेड मैनेजमेंट सोसाइटी,
लोधीपुर राजपूत, दिल्ली रोड, मुरादाबाद

(आईएफटीएम सोसाइटी, मुरादाबाद)
सदस्य सूची (जनरल बाडी)
वर्ष–2022–2023 (प्रभावी 10 जनवरी 2023)

क्र0सं0	सदस्य का नाम/पिता का नाम	पता	व्यवसाय	सदस्यता श्रेणी	सदस्यता दिनाँक
1.	श्री राजीव कोठीवाल पुत्र स्व0 श्री ओंकार सरन कोठीवाल	ब्रजराज भवन, सिविल लाइन्स, मुरादाबाद	व्यवसायी	आजीवन	15.07.2007
2.	श्री अभिनव कोठीवाल पुत्र श्री राजीव कोठीवाल	ब्रजराज भवन, सिविल लाइन्स, मुरादाबाद	व्यवसायी	आजीवन	03.12.2020
3.	श्री अमित कोठीवाल पुत्र स्व0 श्री धर्मात्मा सरन कोठीवाल	नन्दलाल भवन, सिविल लाइन्स, मुरादाबाद	व्यवसायी	आजीवन	15.07.2007
4.	श्रीमती मंजू कोठीवाल पत्नी श्री राजीव कोठीवाल	ब्रजराज भवन, सिविल लाइन्स, मुरादाबाद	गृहणी	आजीवन	03.12.2020
5.	डा0 शमा अग्रवाल पुत्री स्व0 श्री राम कुमार	निकट बड़ा मंदिर चंदौसी, संभल	शिक्षाविद	आजीवन	15.07.2007
6.	श्रीमती रश्मि कोठीवाल पत्नी श्री अभिनव कोठीवाल	ब्रजराज भवन, सिविल लाइन्स, मुरादाबाद	गृहणी	आजीवन	03.12.2020
7.	श्रीमती संगीता अग्रवाल पत्नी श्री विनोद अग्रवाल	ई–301, गौरी सदन, 5 हैली रोड, सेन्ट्रल दिल्ली,दिल्ली–110001	गृहणी	साधारण	06.07.2018
8.	श्रीमती बीनू गुप्ता पत्नी श्री प्रदीप गुप्ता	मकान नं0–38, सूरज गंज, गणपति प्लाजा के पास, हापुड़, गाजियाबाद	गृहणी	साधारण	06.07.2018
9.	श्री विक्रम जैन पुत्र श्री युद्धवीर सिंह जैन	फ्लैट न० 1029, ब्लॉक जी10 फ्लोर गौड़ स्पोर्ट्स वुड सेक्टर – 79 नोएडा	व्यवसायी	साधारण	10.01.2023
10.	श्री अनुभव जैन पुत्र श्री अलोक कुमार जैन	16/15, पल्टन बाजार, देहरादून	व्यवसायी	साधारण	10.01.2023

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Annexure 2

Government of Uttar Pradesh notification for the establishment of IFTM University, Moradabad

Ph: 23236351, 23232761, 23231771, 23234116
23235733, 23233307, 23236736, 23239437

www.ugc.ac.in

विश्वविद्यालय अनुदान आयोग
बहादुरशाह जफर मार्ग
नई दिल्ली-110 002
UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110 002

Speed - Post

F.No. 8-31/2010(CPP-I/PU)

February, 2011

The Registrar,
Institute of foreign Trade Management University
Lodhipur Rajput, Delhi Road,
Moradabad – 244 102
Uttar Pradesh.

14 FEB 2011

Sub: - To Notify Institute of foreign Trade Management University, Moradabad, Uttar Pradesh.

Sir,

With reference to State Government Notification No. 1110(2)/LXXIX-V-1-10-1- (ka)20-2010 dated 12th October, 2010 on the above subject, I am directed to say that Institute of foreign Trade Management University, Moradabad, Uttar Pradesh has been established by an Act (No. 24 of 2010) of State Legislature of Uttar Pradesh as a State Private University and is empowered to award degrees as specified by the UGC under section 22 of the UGC Act 1956 through its main campus with the approval of statutory bodies / councils, wherever required.

As per the judgment of the Hon'ble Supreme Court in the case of Prof. Yashpal Vs State of Chhattisgarh there is no provision to have Regional Centres / off Campus beyond the territorial jurisdiction of the State.

Keeping in view of the above, you are requested to ensure on the following:-

1. No off campus centre(s) is opened by your University outside the territorial jurisdiction of the State in view of the judgement of Hon'ble Supreme Court of India in case of Prof. Yash Pal Vs State of Chhattisgarh.

2. In case the University has already started any off campus centre outside the State, it must be closed immediately. It may also be ensured that any off campus centre within the State shall be opened only as per the provision laid down in the UGC (Establishment of and maintenance at standards in Private University) Regulation 2003 and with the prior approval of UGC.

3. The University shall not have any affiliated Colleges.

4. The University has to follow UGC (Minimum standards and procedure for award of M.Phil / Ph.D degree) Regulations, 2009.

The University is required to follow the UGC (Establishment of and Maintenance of Standards in Private University) Regulation, 2003 (copy enclosed) & other Regulations issued from time to time and placed on UGC website www.ugc.ac.in.

Sanjeev Bansal
REGISTRAR
IFTM UNIVERSITY
MORADABAD

Sanjeev Bansal
REGISTRAR
IFTM UNIVERSITY

...2

You are also requested to send the information in the prescribed format (copy enclosed) for inspection purpose as per UGC Regulations referred to above within one month from the date of receipt of this letter.

Yours faithfully,

(Shashi Bala Arora)
Under Secretary

Encl: As above.

Sanjeev Agrawal
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MORADABAD.

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Annexure 3

UGC Notification for the establishment of IFTM University, Moradabad

संख्या–3113 / सत्तर–1–2010–20(12) / 2006

प्रेषक,

विमल किशोर गुप्ता,
विशेष सचिव,
उत्तर प्रदेश शासन।

सेवा में,

प्रेसिडेन्ट,
आई0एफ0टी0एम0 सोसायटी,
लोधीपुर राजपूत, दिल्ली रोड,
मुरादाबाद।

उच्च शिक्षा अनुभाग–1 लखनऊ : दिनांक : 11 जनवरी, 2011

विषयः– आई0एफ0टी0एम0 विश्वविद्यालय, मुरादाबाद, उत्तर प्रदेश का संचालन प्रारम्भ किये जाने हेतु प्राधिकार–पत्र निर्गत किया जाना।

महोदय,

उपर्युक्त विषयक अपने पत्र दिनांक 02–11–2010 का कृपया संदर्भ ग्रहण करें जिसके द्वारा आई0एफ0टी0एम0 विश्वविद्यालय उत्तर प्रदेश अधिनियम, 2010 की धारा–4 में वर्णित शर्तों को पूर्ण किये जाने की सूचना देते हुए आई0एफ0टी0एम0 विश्वविद्यालय मुरादाबाद, उत्तर प्रदेश का संचालन प्रारम्भ करने हेतु प्राधिकार–पत्र निर्गत किये जाने का अनुरोध किया गया है।

2– इस संबंध में मुझे यह कहने का निदेश हुआ है कि श्री राज्यपाल महोदय आई0एफ0टी0एम0 विश्वविद्यालय उत्तर प्रदेश अधिनियम, 2010 की धारा–5 में निहित शक्ति का प्रयोग करते हुए आई0एफ0टी0एम0 विश्वविद्यालय, मुरादाबाद, उत्तर प्रदेश का संचालन शैक्षणिक सत्र 2010–11 से प्रारम्भ करने हेतु एतदद्वारा प्राधिकार–पत्र निर्गत करने की सहर्ष स्वीकृति प्रदान करते हैं।

भवदीय,

(विमल किशोर गुप्ता)
विशेष सचिव।

Sanjeev Agrawal
REGISTRAR
IFTM UNIVERSITY
MORADABAD

pradhikar patra

IFTM UNIVERSITY

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Annexure 4

Programme wise details for the Academic year 2011-12

(first batch admission under University)

IFTM UNIVERSITY

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Academic Year 2011-12 (First Batch admission under University)

Under Graduate Programmes

S.No.	Programme	Sanctioned Intake	Actual Enrollment
1	Bachelor of Pharmacy	100	100
2	Bachelor of Physiotherapy	60	0
3	Bachelor of Business Administration	120	120
4	Bachelor of Commerce	60	0
5	Bachelor of Commerce (Honours)	60	19
6	Bachelor of Science in Biotechnology	60	38
7	Bachelor of Science in Microbiology	60	7
8	Bachelor of Technology in Biotechnology	60	49
9	Bachelor of Computer Application	80	65
10	Bachelor of Technology in Computer Science and Engineering	60	49
11	Bachelor of Technology in Computer Science and Engineering + Master of Business Management	10	1
12	Bachelor of Technology in Computer Science and Engineering + Master of Technology in Computer Science and Engineering	10	5
13	Bachelor of Technology in Information Technology	60	0
14	Bachelor of Technology in Biotechnology + Master of Business Management	12	0
15	Bachelor of Technology in Biotechnology + Master of Technology in Biotechnology	12	6
16	Bachelor of Technology in Civil Engineering	120	89
17	Bachelor of Technology in Electrical Engineering	60	22

Sanjeev Agrawal
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MORADABAD

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S.No.	Programme	Sanctioned Intake	Actual Enrollment
18	Bachelor of Technology in Electronics and Communication Engineering	60	55
19	Bachelor of Technology in Engineering + Master of Business Management	10	8
20	Bachelor of Technology in Engineering + Master of Technology in Engineering	10	10
21	Bachelor of Technology in Mechanical Engineering	120	120
22	Bachelor of Science (PCM)	60	16
23	Bachelor of Arts in Mass Communication	60	0
24	Bachelor of Library and Information Science	60	0
Total		**1384**	**779**

Post Graduate Programme

S.No.	Programme	Sanctioned Intake	Actual Enrollment
1	Master of Pharmacy (Clinical Pharmacy)	10	0
2	Master of Pharmacy (Pharmaceutical Chemistry)	10	1
3	Master of Pharmacy (Pharmaceutical Management)	10	0
4	Master of Pharmacy (Pharmaceutics)	18	13
5	Master of Pharmacy (Pharmacognosy)	10	4
6	Master of Pharmacy (Pharmacology)	10	0
7	Master of Physiotherapy in Cardiothoracic	30	0
8	Master of Physiotherapy in Neurology	30	0
9	Master of Physiotherapy in Orthopedics	30	0

Sanjeev Singh
REGISTRAR
IFTM UNIVERSITY
MORADABAD

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S.No.	Programme	Sanctioned Intake	Actual Enrollment
10	Master of Physiotherapy in Sport Medicine	30	0
11	Master of Business Administration	120	120
12	Master of Science in Bioinformatics	30	0
13	Master of Science in Biotechnology	30	30
14	Master of Technology in Bioinformatics	30	0
15	Master of Technology in Biotechnology	30	2
16	Master of Computer Applications	60	60
17	Master of Technology in Computer Science and Engineering	30	30
18	Master of Technology in Electronics and Communication Engineering	30	27
19	Master of Technology in Mechanical Engineering	30	13
20	Master of Science in Botany	30	14
21	Master of Science in Chemistry	60	60
22	Master of Science in Electronics	30	6
23	Master of Science in Mathematics	30	5
24	Master of Science in Operation Research	30	0
25	Master of Science in Physics	30	29
26	Master of Science in Zoology	30	22
27	Master of Arts (English)	30	0
28	Master of Arts (Sociology)	30	0
29	Master of Arts in Mass Communication	30	0

Sanjeev Agrawal
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MORADABAD

S.No.	Programme	Sanctioned Intake	Actual Enrollment
30	Master of Library and Information Science	30	0
31	Master of Social Work	30	0
Total		**968**	**436**

Diploma Programme

S.No.	Programme	Sanctioned Intake	Actual Enrollment
1	Diploma in Pharmacy	60	33
2	Diploma in Computer Science & Engineering	60	21
3	Diploma in Computer Science and Engineering + Bachelor of Technology in Computer Science and Engineering	10	5
4	Diploma in Networking	60	0
5	Diploma in Automobiles	60	0
6	Diploma in Civil Engineering + Bachelor of Technology in Civil Engineering	24	7
7	Diploma in Civil Engineering	130	130
8	Diploma in Electrical Engineering + Bachelor of Technology in Electrical Engineering	12	0
9	Diploma in Electrical Engineering	70	70
10	Diploma in Electronics & Communication Engineering + Bachelor of Technology in Electronics & Communication Engineering	12	0
11	Diploma in Electronics & Communication Engineering	70	34
12	Diploma in Mechanical Engineering + Bachelor of Technology in Mechanical Engineering	24	3

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S.No.	Programme	Sanctioned Intake	Actual Enrollment
13	Diploma in Mechanical Engineering	130	130
Total		**722**	**433**

Doctorate Programme

S.No.	Programme	Sanctioned Intake	Actual Enrollment
1	Doctor of Philosophy (Ph.D.)	**210**	**210**

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Annexure 5

Programme wise details for the Academic year 2024-25

IFTM UNIVERSITY

(Established under UP Govt. Act No. 24 of 2010 and approved under section 2(f) of UGC Act 1956)
Lodhipur Rajput, Delhi Road, Moradabad- 244102, U.P.
Telephone: 0591-2360817, 2360818 Email: info@iftmuniversity.ac.in Website: www.iftmuniversity.ac.in

Academic Year 2024-25

Under Graduate Programme:

S.No.	Programme	Sanctioned Intake	Actual Enrolment
1	Bachelor of Pharmacy	960	938
2	Bachelor of Science (Honors) in Agriculture	1170	990
3	Bachelor of Technology in Agriculture Engineering	170	111
4	Bachelor of Business Administration (Hons./ Hons. with research)	540	445
5	Bachelor of Commerce /Bachelor of Commerce (Hons./ Hons. with research) / Bachelor of Commerce (Hons.)	495	408
6	Bachelor of Hotel Management and Catering Technology	110	62
7	Bachelor of Science in Biotechnology / Bachelor of Science in Biotechnology (Hons./ Hons. with research)	225	172
8	Bachelor of Science in Food Technology / Bachelor of Science in Food Technology (Hons./ Hons. with research)	135	97
9	Bachelor of Science in Microbiology / Bachelor of Science in Microbiology (Hons./ Hons. with research)	210	182
10	Bachelor of Technology in Biotechnology	195	107
11	Bachelor of Computer Applications / Bachelor of Computer Applications (Hons./ Hons. with research)	1800	1637
12	Bachelor of Technology Computer Science and Engineering	720	660
13	Bachelor of Technology in Civil Engineering/Bachelor of Technology in Electrical Engineering/Bachelor of Technology in Electronics and Communication Engineering/Bachelor of Technology in Mechanical Engineering	630	445
14	Bachelor of Laws (LL.B.)	360	243

Sanjeev Dwivedi
REGISTRAR
IFTM UNIVERSITY
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S.No.	Programme	Sanctioned Intake	Actual Enrolment
15	Integrated Laws (B.A. LL.B)	300	258
16	Integrated Laws (B.B.A. LL.B)	300	205
17	B.Sc. (Hons./ Hons. with research) in Physics / Chemistry / Mathematics / Zoology / Botany	1125	897
18	Bachelor of Arts / B.A. (Hons./ Hons. with research) in English / Hindi / Geography / Sociology / Political Science / History / Home Science / Economics / Education / Sanskrit	780	647
19	Bachelor of Arts in Journalism and Mass Communication	30	17
20	Bachelor of Education (B.Ed.)	200	102
21	Bachelor of Library and Information Science	15	15
22	Integrated Education (B.A. B.Ed)/Integrated Education (B.Sc. B.Ed)	400	288
Total		**10870**	**8926**

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Post Graduate Programme:

S.No.	Programme	Sanctioned Intake	Actual Enrolment
1	Master of Pharmacy (Pharmaceutical Chemistry)	24	24
2	Master of Pharmacy (Pharmaceutics)	24	24
3	Master of Pharmacy (Pharmacognosy)	24	23
4	Master of Pharmacy (Pharmacology)	24	24
5	Master of Science in Agriculture (Agronomy)/Master of Science in Horticulture (Floriculture and Landscaping)	85	79
6	Master of Science in Horticulture (Vegetable Science)	30	26
7	Master of Technology Agriculture Engineering in Process and Food Engineering/Master of Technology Agriculture Engineering in Farm Machinery and Power Engineering/Master of Technology Agriculture Engineering in Soil & Water Conservation Engineering	20	12
8	Master of Business Administration	240	230
9	Master of Commerce	60	51
10	Master of Hotel Management	10	3
11	Master of Science in Biotechnology/Master of Technology in Biotechnology	60	52
12	Master of Science in Food Technology	60	57
13	Master of Science in Microbiology	95	89
14	Master of Computer Applications	300	292
15	Master of Technology in Computer Sciences	50	45
16	Master of Technology in Civil Engineering	20	19

Sanjeev Bhardwaj
REGISTRAR
IFTM UNIVERSITY
MORADABAD

IFTM UNIVERSITY

(Established under UP Govt. Act No. 24 of 2010 and approved under section 2(f) of UGC Act 1956)
Lodhipur Rajput, Delhi Road, Moradabad- 244102, U.P.
Telephone: 0591-2360817, 2360818 Email: info@iftmuniversity.ac.in Website: www.iftmuniversity.ac.in

S.No.	Programme	Sanctioned Intake	Actual Enrolment
17	Master of Technology in Electrical Engineering/Master of Technology in Electronics and Communication Engineering	25	21
18	Master of Technology in Mechanical Engineering	20	19
19	Master of Laws (LL.M.)	145	137
20	Master of Science Botany/Master of Science Chemistry/Master of Science in Home Science/Master of Science in Mathematics/Master of Science in Physics/Master of Science in Zoology	450	434
21	Master of Arts in Economics / English / Sociology / Geography / Hindi / Education / Journalism and Mass Communication / Political Science	180	165
22	Master of Education	100	84
23	Master of Library and Information Science	15	15
24	Master of Social Work	20	15
Total		**2081**	**1940**

Sanjeev Bansal
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Diploma Programme:

S.No.	Programme	Sanctioned Intake	Actual Enrolment
1	Diploma in Civil Engineering	240	229
2	Diploma in Computer Science & Engineering	270	255
3	Diploma in Electronics & Communication Engineering	195	155
4	Diploma in Hotel Management	75	70
5	Diploma in Pharmacy	360	358
Total		**1140**	**1067**

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Telephone: 0591-2360817, 2360818 Email: info@iftmuniversity.ac.in Website: www.iftmuniversity.ac.in

Ph.D. Programme:

S.No.	Programme	Sanctioned Intake	Actual Enrolment
1	Ph.D.	652	652
Total		**652**	**652**

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Telephone: 0591-2360817, 2360818 Email: info@iftmuniversity.ac.in Website: www.iftmuniversity.ac.in

Annexure 6 (a)

Approval letter of Pharmacy Council of India (PCI), New Delhi to Increase the Intake

भारतीय भेषजी परिषद्
(स्वास्थ्य एवं परिवार कल्याण मंत्रालय के अंतर्गत सांविधिक निकाय)
भारत सरकार
एन बी सी सी सेन्टर, तृतीय तल, प्लॉट नम्बर 2,
कम्युनिटी सेन्टर, मा आनन्दमयी मार्ग
ओखला, फेज-I, नई दिल्ली-110020
दूरभाष 011-61299900-03

PHARMACY COUNCIL OF INDIA
(Statutory body under Ministry of Health & Family Welfare)
Government of India
NBCC Centre, 3rd Floor, Plot No. 2,
Community Centre, Maa Anandmai Marg,
Okhla, Phase-I,New Delhi-110020
Telephone No. 011-61299900-03

DECISION LETTER

Institute Name/Inst ID	Sahu Onkar Saran School of Pharmacy IFTM University Moradabad / PCI-5516
State	UTTAR PRADESH
District	-
Village/Town/City	Lodhipur Rajput
Pin Code	244102

Sir/Madam

With reference to the subject cited above i am directed to convey the approval of PCI as per Following Details

Course	Name of Affiliation body/University	Decision	Approval Status	Approval Upto	Intake
B.Pharm	The Registrar IFTM University Moradabad Lodhipur Rajput Delhi Road Moradabad	B.Pharm Grant approval for 2024-2025 academic session for the conduct of 2nd year for B.Pharm course. Allow 100 admissions in 2024-2025 academic session in 1st year. (Permit raise in admissions from 60 to 100 from 2024-2025 a.s.)	Approved	2024-2025	100
D.Pharm	The Registrar IFTM University Moradabad Lodhipur Rajput Delhi Road Moradabad	D.Pharm Grant approval for 2024-2025 academic session for the conduct of 2nd year for 60 admissions for D.Pharm course. Allow 60 admissions in 2024-2025 academic session in 1st year.	Approved	2024-2025	60

EC Meeting Number: EC 419

EC Meeting Date: 16 Oct 2024

Communication Date: 23 Oct 2024

डॉ नरेन्द्र भु. जोशी

For
Registrar-cum-Secretary
PCI

Copy to

i) Registrar of the University

ii) Principal of the college

iii) Secretary/Chairman of the Trust/Society

iv) Guard File (PCI)

Note: Validity of the course details may be verified at pcionline.co.in

Sanjeev Agrawal
REGISTRAR
IFTM UNIVERSITY
MORADABAD

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Telephone: 0591-2360817, 2360818 Email: info@iftmuniversity.ac.in Website: www.iftmuniversity.ac.in

Annexure 6 (b)

Approval letter of Pharmacy council of India (PCI), Bar Council of India (BCI) & National Council of Teachers Education (NCTE), New Delhi

भारतीय भेषजी परिषद्
(स्वास्थ्य एवं परिवार कल्याण मंत्रालय के अंतर्गत सांविधिक निकाय)
भारत सरकार
एन बी सी सी सेन्टर, तृतीय तल, प्लॉट नम्बर 2,
कॉमुन्यटी सेन्टर, मा आनन्दमयी मार्ग,
ओखला, फेस-I, नई दिल्ली-110020
दूरभाष 011-61299900-03

कार्यमे वृ खलप्लानाम् प्रतिनाशार्तिनाशकम्

PHARMACY COUNCIL OF INDIA
(Statutory body under Ministry of Health & Family Welfare)
Government of India
NBCC Centre, 3rd Floor, Plot No. 2,
Community Centre, Maa Anandmai Marg,
Okhla, Phase-I, New Delhi-110020
Telephone No. 011-61299900-03

DECISION LETTER

Institute Name/Inst ID	Pharmacy Academy Iftm University Lodhipur Rajpoot Delhi Road Moradabad / PCI-1570
State	UTTAR PRADESH
District	-
Village/Town/City	Lodhipur Rajput
Pin Code	244102

Sir/Madam

With reference to the subject cited above I am directed to convey the approval of PCI as per Following Details

Course	Name of Affiliation body/University	Decision	Approval Status	Approval Upto	Intake
B.Pharm	The Registrar IFTM University Lodhipur Rajput Delhi Road Moradabad	412th EC held on 10.8.2024 under Item No. 1 decided as under- B.Pharm Extend approval upto 2024-2025 academic session for 100 admissions for B.Pharm course The above extension of approval is granted subject to inspection throughout the year.	Approved	2024-2025	100
D.Pharm	The Registrar IFTM University Lodhipur Rajput Delhi Road Moradabad	412th EC held on 10.8.2024 under Item No. 1 decided as under- D.Pharm Extend approval upto 2024-2025 academic session for 60 admissions for D.Pharm course. The above extension of approval is granted subject to inspection throughout the year.	Approved	2024-2025	60

EC Meeting Number: -

EC Meeting Date: -

Communication Date: 24 Aug 2024

डॉ नरेन्द्र मु. गोवेकर

For
Registrar-cum-Secretary
PCI

Copy to

I) Registrar of the University

ii) Principal of the college

Iii) Secretary/Chairman of the Trust/Society

iv) Guard File (PCI)

Note: Validity of the course details may be verified at pcionline.co.in

Sanjeev Agrawal
REGISTRAR
IFTM UNIVERSITY
MORADABAD

भारतीय भेषजी परिषद्
(स्वास्थ्य एवं परिवार कल्याण मंत्रालय के अंतर्गत सांविधिक निकाय)
भारत सरकार
एन बी सी सी सेन्टर तृतीय तल प्लॉट नम्बर 2,
कॉम्युनिटी सेन्टर मा आनन्दमयी मार्ग
ओखला फेज-1, नई दिल्ली-110020
दूरभाष 011-61299900-03

PHARMACY COUNCIL OF INDIA
(Statutory body under Ministry of Health & Family Welfare)
Government of India
NBCC Centre, 3rd Floor, Plot No. 2,
Community Centre, Maa Anandmai Marg,
Okhla, Phase-I,New Delhi-110020
Telephone No. 011-61299900-03

DECISION LETTER

Institute Name/Inst ID	Sahu Onkar Saran School of Pharmacy IFTM University Moradabad / PCI-5516
State	UTTAR PRADESH
District	-
Village/Town/City	Lodhipur Rajput
Pin Code	244102

Sir/Madam

With reference to the subject cited above I am directed to convey the approval of PCI as per Following Details

Course	Name of Affiliation body/University	Decision	Approval Status	Approval Upto	Intake
B.Pharm	The Registrar IFTM University Moradabad Lodhipur Rajput Delhi Road Moradabad	B.Pharm Grant approval for 2024-2025 academic session for the conduct of 2nd year for B.Pharm course. Allow 100 admissions in 2024-2025 academic session in 1st year. (Permit raise in admissions from 60 to 100 from 2024-2025 a.s.)	Approved	2024-2025	100
D.Pharm	The Registrar IFTM University Moradabad Lodhipur Rajput Delhi Road Moradabad	D.Pharm Grant approval for 2024-2025 academic session for the conduct of 2nd year for 60 admissions for D.Pharm course. Allow 60 admissions in 2024-2025 academic session in 1st year.	Approved	2024-2025	60

EC Meeting Number: EC 419

EC Meeting Date: 16 Oct 2024

Communication Date: 23 Oct 2024

डॉ नरेन्द्र भु. जोरेकर

For
Registrar-cum-Secretary
PCI

Copy to

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Note: Validity of the course details may be verified at pcionline.co.in

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कॉमुन्यूटी सेन्टर, मा आनन्दमयी मार्ग,
ओखला, फेस-I, नई दिल्ली-110020
दूरभाष 011-61299900-03



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Government of India
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Community Centre, Maa Anandmai Marg,
Okhla, Phase-I, New Delhi-110020
Telephone No. 011-61299900-03

DECISION LETTER

Institute Name/Inst ID	School Of Pharmaceutical Sciences Iftm University Moradabad Lodhipur Rajput Delhi Road Moradabad / PCI-1945
State	UTTAR PRADESH
District	-
Village/Town/City	Lodhipur Rajput
Pin Code	244102

Sir/Madam

With reference to the subject cited above i am directed to convey the approval of PCI as per Following Details

Course	Name of Affiliation body/University	Decision	Approval Status	Approval Upto	Intake
M.Pharm Pharmaceutics	The Registrar IFTM University Moradabad Lodhipur Rajput Delhi Road Moradabad	412th EC held on 10.8.2024 under Item No. 1 decided as under- M.Pharm M.Pharm (Pharmaceutics) – 12 The above extension of approval is granted subject to inspection throughout the year.	Approved	2024-2025	12
M.Pharm Pharmaceutical Chemistry	The Registrar IFTM University Moradabad Lodhipur Rajput Delhi Road Moradabad	412th EC held on 10.8.2024 under Item No. 1 decided as under- M.Pharm M.Pharm (Pharmaceutical Chemistry) – 12 The above extension of approval is granted subject to inspection throughout the year.	Approved	2024-2025	12
D.Pharm	The Registrar IFTM University Moradabad Lodhipur Rajput Delhi Road Moradabad	412th EC held on 10.8.2024 under Item No. 1 decided as under- D.Pharm Extend approval upto 2024-2025 academic session for 60 admissions for D.Pharm course. The above extension of approval is granted subject to inspection throughout the year.	Approved	2024-2025	60
B.Pharm	The Registrar IFTM University Moradabad Lodhipur Rajput Delhi Road Moradabad	412th EC held on 10.8.2024 under Item No. 1 decided as under- B.Pharm Extend approval upto 2024-2025 academic session for 100 admissions for B.Pharm course. The above extension of approval is granted subject to inspection throughout the year.	Approved	2024-2025	100

Sanjeev Dhawan
REGISTRAR
IFTM UNIVERSITY
MORADABAD

भारतीय भेषजी परिषद्
(स्वास्थ्य एवं परिवार कल्याण मंत्रालय के अंतर्गत सांविधिक निकाय)
भारत सरकार
एन बी सी सी सेन्टर, तृतीय तल, प्लॉट नम्बर 2,
कॉमुन्यूटी सेन्टर, मा आनन्दमयी मार्ग,
ओखला, फेस-I, नई दिल्ली-110020
दूरभाष 011-61299900-03



कामये दृ स्वास्थ्यम् प्रतिनाभार्टिनाटनम्

PHARMACY COUNCIL OF INDIA
(Statutory body under Ministry of Health & Family Welfare)
Government of India
NBCC Centre, 3rd Floor, Plot No. 2,
Community Centre, Maa Anandmai Marg,
Okhla, Phase-I, New Delhi-110020
Telephone No. 011-61299900-03

DECISION LETTER

Course	Name of Affiliation body/University	Decision	Approval Status	Approval Upto	Intake
M.Pharm Pharmacognosy	The Registrar IFTM University Moradabad Lodhipur Rajput Delhi Road Moradabad	412th EC held on 10.8.2024 under Item No. 1 decided as under- M.Pharm M.Pharm (Pharmacognosy) - 12 The above extension of approval is granted subject to inspection throughout the year.	Approved	2024-2025	12
M.Pharm Pharmacology	The Registrar IFTM University Moradabad Lodhipur Rajput Delhi Road Moradabad	412th EC held on 10.8.2024 under Item No. 1 decided as under- M.Pharm M.Pharm (Pharmacology) – 12 The above extension of approval is granted subject to inspection throughout the year.	Approved	2024-2025	12

EC Meeting Number: -

EC Meeting Date: -

Communication Date: 30 Aug 2024

डॉ नरेन्द्र मु. गोयेकर

For
Registrar-cum-Secretary
PCI

Copy to

I) Registrar of the University

ii) Principal of the college

iii) Secretary/Chairman of the Trust/Society

iv) Guard File (PCI)

Note: Validity of the course details may be verified at pcionline.co.in

Sanjeev Agrawal
REGISTRAR
IFTM UNIVERSITY
MORADABAD

E-mail : bciinfo21@gmail.com
info@barcouncilofindia.org
Website : www.barcouncilofindia.org

Tel. :(91) 011-4922 5000
Fax :(91) 011-4922 5011

भारतीय विधिज्ञ परिषद्
BAR COUNCIL OF INDIA

(Statutory Body Constituted under the Advocates Act, 1961)

21, Rouse Avenue Institutional Area, Near Bal Bhawan, New Delhi - 110002

BCI: 1533 **/2024 (LE/App/Affln)** **09.09.2024**

1.	**The Registrar,** **IFTM University,** **Lodhipur Rajput,** **Delhi Road (NH-24),** **Moradabad – 224102** **Uttar Pradesh**
2.	**The Principal,** **IFTM University,** **Lodhipur Rajput,** **Delhi Road (NH-24),** **Moradabad – 224102** **Uttar Pradesh**

Sub: Extension of provisional approval of affiliation to Faculty of Law, IFTM University, Moradabad, Uttar Pradesh for imparting three year LL.B course with intake of two sections of 60 students each sections, five year BA LL.B course with intake of one section of 60 students and five year BBA LL.B course with intake of one section of 60 students for a period of one year i.e. for the academic year 2024-2025.

Sir/Ma'am,

This is with reference to above mentioned subject regarding extension of provisional approval of affiliation to **Faculty of Law, IFTM University, Moradabad, Uttar Pradesh** which has already applied for extension of approval of affiliation for the academic year 2024-2025.

This is to bring to your kind knowledge that the following resolution was passed on 5th May, 2024 by the General Council of the Bar Council of India with respect to grant of provisional approval of affiliation, to existing Centers of Legal Education/Colleges, whose approval cum regular inspection fee has been deposited, application of extension of approval of affiliation is pending, but no inspection could be done or the inspection has been done, but inspection report could not be placed before the Legal Education Committee or the Standing Committee for the academic year 2024-2025.

"RESOLVED that with respect to existing Centers of Legal Education/Colleges, whose inspection fee has been deposited, application for extension of approval of affiliation is pending, no inspection could be done or the inspection has been done, but inspection report could not be placed before the Legal Education Committee or the Standing Committee for its consideration, such Centers of Legal Education/Colleges may continue to admit students only for the academic year 2024-2025.This will apply only in case where affiliation has been granted by the University. Such provisional approval shall be subject to any decision taken after the inspection of the CLE is done by the Bar Council of India subsequently.

Typed by: M.J
Fee & GA Checked: M.J

Sanjeev Agarwal
REGISTRAR
IFTM UNIVERSITY
MORADABAD

AN AFFIDAVIT THAT THE CENTRE OF LEGAL EDUCATION IS COMPLYING WITH THE BELOW STIPULATED NORMS, RULES, REGULATIONS AND MANDATORY GUIDELINES OF BAR COUNCIL OF INDIA AS WELL AS WITH ALL THE ENUMERATIONS STIPULATED IN THE ATTACHED CIRCULARS(WITH THIS LETTER) BEARING NOS. BCI: D: 465/2024 DATED 24.01.2024(ANNEXURE-B), BCI: D: 468/2024/CIR-006/2024(LE) DATED 20.05.2024(ANNEXURE-C), BCI: D: 469/2024(LE/CIR.007) DATED 21.05.2024 (ANNEXURE-D)AND BCI:D:525/2024 (LE CIRCULAR NO. 008/2024) DATED 30.05.2024(ANNEXURE-E) AND SHOW CAUSE NOTICES AND COMPLIANCE LETTER REFERREDTO IN ANNEXURE-A, ATTACHED TO THIS LETTER MUST BE SUBMITTED TO THE BAR COUNCIL OF INDIA WITHIN 15 DAYS OF THE RECEIPT OF THIS LETTER FAILING WHICH, THEIR APPLICATION FOR FURTHER EXTENSION OF APPROVAL OF AFFILIATION SHALL NOT BE CONSIDERED AND IF APPROVAL, IS GRANTED FOR THE ACADEMIC SESSION 2024-2025, THE SAME MAY BE WITHDRAWN TOO.

The provisional approval of affiliation shall be conditional and is subject to compliance as per circular dated 05.02.2020 bearing No.BCI:D:158 (LE:Circulation No.01/2020), issued to all Centers of Legal education, as per the extended time of such compliance, whereby every Centre of Legal Education/college is required to submit a certified authenticated bank statement bearing bank stamp, date and signature, mandatorily with respect to the salary/ies being disbursed to all the teachers/faculties every three months with effect from March, 2022 on a regular basis, unless specifically sought at other intervals, and also furnish list of teachers with qualifications as per BCI and UGC Rules, and further furnish proof/receipts of fulfillment of minimum library requirements, as enumerated under Schedule-III, Rule-15, Minimum Library requirements of Legal Education Rules-which is the sine qua non of a Centre of Legal Education. Certain show cause notices and compliance letters had also been issued specifically to certain Centers of Legal Education/Colleges, with conditions mentioned therein, which have to be complied too as per the time stipulations therein, and if they have not been complied with they must be complied with immediately.

The last date for compliance of the above referred circular has expired on 31st August, 2022. It was extended from time to time due to the pandemic. As a last opportunity, ensure to comply with the same, otherwise the provisional approval of affiliation being issued herewith may be withdrawn.

➤ ***You may kindly bear in mind that the Bar Council of India is the sole and supreme sanctioning authority for seats and it does not allow any supernumerary quota of seats for law degree courses, over and above the sanctioned strength of seats and whatever reservation of seats is to done by the University under whichever quota as a rule has to be done within sanctioned strength of seats. The only supernumerary quota, as of now permitted by the Bar Council of India, is 10 percent seats in EWS quota over and above the sanctioned strength of seats allotted/approved by BCI and that too, is subject to adequate infrastructure and qualified faculty to accommodate the supernumerary seats. The same is required to be adhered to. If there is any default on such part and the same is discovered subsequently, action shall ensue.***

Sanjeev Bansal

REGISTRAR
IFTM UNIVERSITY
MORADABAD

Typed by: M.J
Fee & GA Checked: M.J

- *The CLE is advised to declare the same voluntarily for consideration of the same in a manner which will not be detrimental to interests of the students admitted, if any, over and above the sanctioned seats as a one time opportunity. The same shall not be construed to be applied prospectively.*

- *It is pertinent to point that no University in India can offer a 4 year LL.B or integrated LL.B, followed by a 1 year LL.M in tie up with a foreign University under the present BCI regulations. Such a Law degree, nor the post qualification after it, is recognised by Bar Council of India. The BCI only recognizes the pattern of a 12th class +3 (graduation in any stream+3 (year Law degree) and/or a 12 + 5 year integrated law degree.*

- *While exchange programs of teachers and students have been undertaken by Centres of Legal Education including, Law Universities in India, Dual Degrees or joint Degrees with Foreign Universities have not been permitted or recognized by BCI. It is essential to emphasize that any foreign collaboration involving legal education institutions, must strictly adhere to the regulatory framework established by the Bar Council of India. It cannot compromise on the quality of legal education mandated by the BCI It's worth noting that unless a degree is recognized by the BCI in India, it holds no validity within the country. Therefore, a degree obtained from an Indian University, being recognized solely in a foreign jurisdiction, without recognition in India, would be of no consequence to the university or its students.*

- *Recognition and approval of law degrees are exclusively within the purview of the Bar Council of India. Consequently, if, upon thorough evaluation it is determined Law degrees are being issued by Universities against the rules and norms of Bar Council of India, recognition of such degree/s shall be withdrawn and such degree holders shall not be entitled to be enrolled in any State Bar Council in India.*

- *BCI and it's Legal Education Committee have time and again reiterated, stated and clarified, that it does not recognise LL.B and/or LL.M or any Law degree course through online mode, correspondence, open and/or distance learning mode.*

- *It has further come to the attention of the Bar Council of India and its Legal Education Committee that certain institutions are offering Master of Arts (MA) programs with a Law subject, in open and distance learning mode, or online mode which attempts to mimic the structure and content of a Master of Laws (LL.M.) program. Upon careful examination, it has been observed that such an endeavour is beyond the scope and intent of a Master of Arts Degree and is deemed impermissible. It is hereby clarified that such MA degrees will not be recognized by the BCI as equivalent to a Master of Laws (LL.M.) degree and for the purpose of teaching of LL.B. Course.*

Sanjeev Dhawan

REGISTRAR
IFTM UNIVERSITY
MORADABAD

Typed by: M.J
Fee & GA Checked: M.J

- It is crucial to clarify that the designation "MA" signifies "Master of Arts," whereas "LL.M." represents "Legume Magister," a Latin term denoting a "Master of Laws" Degree. The distinction between these two titles is significant, as an LL.M. degree is specifically tailored for graduates of law programs, whereas an MA degree encompasses a broader range of academic disciplines and is separate and distinguished from Master of Laws Degree. It is a deliberate attempt to bypass LL.M. in such a manner.

- The BCI emphasizes that an MA degree with a Law subject does not confer the same benefits or privileges as an LL.M. degree. Individuals holding an MA degree in Law will not be entitled to the benefits typically associated with possessing an LL.M. degree, nor will they be eligible to teach in LL.B degree programs. Pursuit of legal education at the postgraduate level, in the form of an LL.M. degree, is restricted to individuals who have completed their undergraduate legal studies while it is clarified that any specialized branch of law offered at the master's level, without the LL.B./BA.LLB qualification as the requisite entry-level credential, shall not be recognised as equivalent to an LL.M. degree.

- It is imperative for all stakeholders in the legal education sector to understand that the distinction between an MA degree and an LL.M. degree is significant. An MA degree with a Law subject does not fulfil the requirements for recognition by the BCI as a qualification equivalent to an LL.M. degree.

- This serves to clarify the position of the BCI on the recognition of MA degrees with a Law subject and to prevent any misconceptions regarding their equivalence to LL.M. degrees.

- The BCI and its Legal Education Committee has further also observed that running an MA (with Law subject) by any such mode is an attempt to mimic an LL.M, which is also not permitted by such mode.

- It has also been brought to the notice of Bar Council of India that some entities claiming to be Centre of Legal Education are offering courses through distance education/correspondence mode, under the nomenclature of the degree of LL.M. or LL.M. professional, where anyone even without LL.B. can get an LL.M. degree, and, the same persons are also getting registered for Ph.D., appearing for UGC NET etc. thereby diluting quality of legal education.

- This is an illegal practice and Bar Council of India shall not hesitate in taking stringent action against such centres.

- As per the order of the Hon'ble Supreme Court of India dated 29.08.2019 passed in Writ Petition (Civil) No.1510 of 2018, titled as Vinit Garg Vs. University Grants Commission and as per the earlier order of Hon'ble Supreme Court of India dated 03.11.2017 passed in Civil Appeal Nos.17869-17870, arising out of SLP No. 19807-19808/2012 in the case of Odisha Lift Irrigation Corp Ltd. Vs Ravi Shankar Patro&Ors., the Hon'ble Supreme Court has held that an University has to obtain permission from the concerned regulatory body for initiating/starting, opening and conducting any distance learning course/s.

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- *As per UGC Regulations 4(A)(iv), (Open and Distance Learning Programmes & Online Programmes) Regulations, 2020, the Higher Educational Institution must have the approval or recommendations of the statutory or regulatory authority, in this case, the Bar Council of India (BCI), for offering law programs in Open and Distance Learning mode or Online mode.*

- *Explanation: Programmes as mentioned at clause (iv) shall be considered only when these are recommended by the respective statutory or regulatory authority or regulatory council to offer in Open and Distance Learning mode or Online mode, as applicable....."*

- *Furthermore, the Distance Education Bureau under UGC explicitly prohibits courses in engineering, law, medicine, dental, pharmacy, nursing, architecture, physiotherapy, applied arts, and other such programs from being offered through online mode without approval from the respective statutory or regulatory bodies.*

- *Some Universities, including some reputed Universities are running such programs in flagrant violation of clear directives and guidelines as stipulated above and without even having made a request or application to BCI in this regard. It is categorically made clear, such programs have no recognition and/or approval from BCI.*

- *CLE's must ensure to comply with these directives, failing which necessary action will ensue.*

An affidavit/undertaking to comply with the conditions mentioned above shall be required to be submitted by way of duly notarized affidavit within 15 days of receipt of this letter by way of hardcopy and also by way of scanned copy at complianceaffiliationle2@gmail.com with heading- COMPLIANCE TO PROVISIONAL APPROVAL-REQUIREMENTS.

It is made clear that if any Centre of Legal Education, does not comply to above then their application for further extension of approval shall not be considered and, if, approval is granted for the academic session 2024-2025, it may be withdrawn.

You are hereby allowed to admit students in imparting three year LL.B course with intake of two sections of 60 students each sections, five year BA LL.B course with intake of one section of 60 students and five year BBA LL.B course with intake of one section of 60 students for a period of one year i.e. for the academic year 2024-2025, subject to conditions mentioned above.

Please be aware that compliance with all conditions and the Rules of Legal Education is mandatory. Any discovered shortcomings or deficiencies, including those detected from portal registrations and forms, may lead to the withdrawal of approval granted to the CLE. Such deficiencies will also render the CLE ineligible to admit students in the next academic session.

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Additionally, the CLE may receive further compliance directives and may be subject to both surprise and scheduled inspections. To maintain your approval and affiliation, ensure full adherence to all Rules and Regulations of Legal Education

- **Universities who have not yet completed one time online registration on the basis of the link/s sent on their official email id's are required to fill the registration form, & upload registered documents and photographs within a period of 21 days, failing which appropriate action will ensue.**

  The compliances and pending fee/ any other fee which may be payable in future may be kindly ensured to be complied with as and when intimated in the future.

- **Note – Kindly ensure to submit English translation of all documents being furnished by you in Hindi or in any other regional language to BCI.**

- **Note- In accordance with the Council resolution passed on February 20, 2022, the refundable guarantee amount per course, is set at Rs. 5 lakh. Additionally, (C.L.E.'s) who had previously deposited a guarantee fee of Rs. 2 lakhs are now required to pay the remaining Rs. 3 lakhs to meet the total guarantee fee of Rs. 5 lakhs for a single course. For each additional course, the guarantee fee stands at Rs. 5 lakhs per course.**

- **Very important: - Please, henceforth ensure to send any compliance affidavit/reply and affiliation orders separately to complianceaffiliationle2@gmail.com, apart from copying it to dlebci@gmail.com. Please do not send any email/s to proledepartment@gmail.com.**

For any other query/ies you may send e-mail/s to dlebci@gmail.com

This is for your information and necessary compliance and action.

Yours sincerely,

(Nalin Raj Chaturvedi)
Joint Secretary, BCI
Additional Charge
[Legal Education Department]

(Srimanto Sen)
Secretary

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Fee & GA Checked: M.J

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उत्तर क्षेत्रीय समिति
राष्ट्रीय अध्यापक शिक्षा परिषद्
(भारत सरकार का एक विधिक संस्थान)

गुरुर्गुरुतमो धाम
NCTE

Northern Regional Committee
National Council for Teacher Educa
(A Statutory Body of the Government of India

TO BE PUBLISHED IN GAZETTE OF INDIA PART – III, SECTION 4

F. No. NRC/NCTE/NRCAPP-2996/225th Meeting/2013/7492

Date: 5 MAR 2014

RECOGNITION ORDER

WHEREAS in terms of Section 14(1) of the NCTE Act, 1993, Institute of Foreign Trade Management Societ Plot No.-IFTM, Street/Road- Lodhipur-Rajpoot,Vill-Moradabad, Post Office-Pakbara, Teh/Taluk-Et Moradabad,Town/City-Moradabad, Dist-Moradabad, State-UP, Pin-244102 has submitted an application (Code N NRCAPP-2996) to the Northern Regional Committee of NCTE for grant of recognition for conducting B.Ed. Course with annual intake of 100 (One Hundred only) on 14/12/2012 in the name of IFTM University, Plot/Khasara No.-273B,Plot N 273B, Street Number-Delhi Road,Vill-Lodhipur Rajpoot, Delhi Road,Post Office-Pakbara, Teh/Taluk-Et Moradabad,Town/City-Moradabad, Dist-Moradabad, State-UP, Pin-244102.

2. AND WHEREAS on scrutiny/perusal of veracity of the facts & figures as per the application submitted by t institution, the documents attached therewith, the affidavit and the input received from the visiting team in the form of visiti team report including videography, the Northern Regional Committee in its 225th meeting held on 25th February to 0 March, 2014 is satisfied that the institution/society fulfils the requirements under the provisions of NCTE Act, Rules a relevant Regulations including the Norms and Standards for the B.Ed. programme such as instructional facilitie infrastructural facilities, library, accommodation, financial resources, laboratory, etc. for running the programme and h selected/appointed duly qualified teaching staff as per NCTE norms.

3. NOW, THEREFORE, in exercise of the powers vested under Section 14(3)(a) of the NCTE Act, 1993, the Northe Regional Committee hereby grants recognition to IFTM University, Plot/Khasara No.-273B,Plot No. 273B, Street Numbe Delhi Road,Vill-Lodhipur Rajpoot, Delhi Road,Post Office-Pakbara, Teh/Taluk-Etah Moradabad,Town/Cit Moradabad, Dist-Moradabad, State-UP, Pin-244102 for conduction of B.Ed. course of Secondary level of One Yea duration with an annual intake of 100 (One Hundred only) from the academic session 2014-2015 under clause 7(11) of NCT (Recognition Norms & Procedure) Regulations, 2009 subject to fulfillment of the following conditions:-

I. The institution shall comply with the various other norms and standards prescribed in the NCTE Regulations, a amended from time to time.
II. The institution shall make admission only after it obtains affiliation from the examining body in terms of claus 8(12) of the NCTE (Recognition Norms & Procedure) Regulations, 2009.
III. The institution shall ensure that the required number of academic staff for conducting the course is always i position.

4. Further, the recognition is subject to fulfilment of all such other requirements as may be prescribed by othe regulatory bodies like UGC, affiliating University/ Body, the State Government etc. as applicable.

5. The institution shall submit to the Regional Committee a Self-Appraisal Report at the end of each academic yea alongwith the statement of annual accounts duly audited by a Chartered Accountant.

6. The institution shall maintain & update its Web-site as per provisions of NCTE Regulations and always displa following as mandatory disclosure:-

I. Copy of the Application Form
II. Land and Building Particulars
III. Staff Profile
IV. Recognition letter
V. Information for having fulfilled the norms & standard and other required conditions.

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7. In case if the land is in the name of the Society/trust, you must transfer the land within six months in the name of the institution failing which action shall be initiated to withdraw the recognition. It shall be essential on the part of the institution

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राष्ट्रीय अध्यापक शिक्षा परिषद्
(भारत सरकार का एक विधिक संस्थान)

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NCTE

Northern Regional Committee
National Council for Teacher Education
(A Statutory Body of the Government of India)

TO BE PUBLISHED IN GAZETTE OF INDIA PART –III, SECTION 4

File No. NRC/NCTE/Recognition/2016 /143979-4032

Dated: 13 MAR 2016

RECOGNITION ORDER

WHEREAS in terms of section 14(1)/15(1) of the NCTE Act, 1993, the institutions had submitted applications to the Northern Regional Committee of NCTE for grant of recognition/permission for Teacher Education Courses.

2. AND WHEREAS on scrutiny/perusal, veracity of the facts & figures as per the application submitted by the institutions mentioned in table below, the documents attached therewith, the affidavit and the input received from the visiting team in the form of visiting team report including videography and also the reply submitted by the institution against decision of clause 7(13) of the NCTE Regulations, 2014, the Northern Regional Committee in its meeting held from time to time (mentioned against each of the institution) is satisfied that the institution/society fulfils the requirements under the provisions of NCTE Act, Rules and relevant Regulations including the Norms and Standards for the concerned Teacher Education Programme such as instructional facilities, infrastructural facilities, library, accommodation, financial resources, laboratory, etc. for running the programme and has selected/appointed duly qualified teaching staff as per NCTE norms and as per the approval of faculty given by the affiliating bodies.

3. NOW, THEREFORE, in exercise of the powers vested under Section 14(3)(a)/15(3)(a) of the NCTE Act, 1993, the Northern Regional Committee hereby grants recognition/permission to the following Institutions for conducting Teacher Education programme with an annual intake mentioned against their names from the academic session **2016-2017** under clause 7(16) of NCTE (Recognition Norms & Procedure) Regulations, 2014 subject to fulfilment of the conditions mentioned below

S. No.	File No.	Name of the Institutions	Course	Duration	Approved annual intake	Meeting
1. 143979	NRCAPP-9904	IFTM University, Plot no. 273B, Street no. Delhi Road, Village - Lodhipur Rajput, P.O. Pakbara, Tehsil -Moradabad, Town-Moradabad, District -Moradabad - 244102, Uttar Pradesh	B.A.B.Ed., B.Sc.B.Ed. (4 Years Integrated)	4 Years	100 (2 Units)	250-1
2. 143980	NRCAPP-10667	Invertis Institute of Education, Plot no. 5&7, 9, 10, 11, 12&13, 31/1, Street no. NH-24, Village - Rajau, P.O. Rajau, Tehsil -Faridpur, Town- Bareilly, District -Bareilly -243123, Uttar Pradesh	B.A.B.Ed., B.Sc.B.Ed. (4 Years Integrated)	4 Years	100 (2 Units)	250-9
3. 143981	NRCAPP-11348	SMT Fulehra Smarak Mahila P G College, Plot No. 315, Village - Kamtailla, Post Office-Rasra, Tehsil- Rasra, Dist.- Ballia (UP) 221712	B.A.B.Ed., B.Sc.B.Ed. (4 Years Integrated)	4 Years	100 (2 Units)	250-12
4. 143982	NRCAPP-11361	College of Higher Studies, Plot No. 52, Village - Habibpur, Post Office -Habibpur, Tehsil - Phoolpur, Dist. - Allahabad (UP) 2641701	B.A.B.Ed., B.Sc.B.Ed. (4 Years Integrated)	4 Years	100 (2 Units)	250-11
5. 143983	NRCAPP-12134	Sanskriti Institute of Education and Research, Plot No. 105, Chhata, Distt. Mathura, State-Uttar Pradesh.	B.A.B.Ed., B.Sc.B.Ed. (4 Years Integrated)	4 Years	100 (2 Units)	250-12
6. 143984	NRCAPP-12197	Shri Prem Prakash Memorial College, Plot no. 34A & 34B, Street no. NA, Village - Bagarpur, P.O. Pakwara, Tehsil - Moradabad, Town- Moradabad, District -Moradabad - 244001 , Uttar Pradesh	B.A.B.Ed., B.Sc.B.Ed. (4 Years Integrated)	4 Years	50 (1 Unit)	250-10

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19. 143997	NRCAPP-10618	Maharana Prtap College of Education, Plot no.179, Street -Arsua Road, Village - Mangura, P.O. -Kathwari, Tehsil -Kirawali, Town -Agra, District -Agra-283101 , Uttar Pradesh	B.P.Ed.	2 Years	100 (1 Unit)	250-11
20. 143998	NRCAPP-12256	Bhagwan Aadinath College of Education, Plot No. 31, 33, 36/2, 37, 38, Village - Mahrra, Post Office - Lalitpur, Tehsil - Lalitpur, Dist. - Lalitpur (UP) 284403	B.P.Ed.	2 Years	100 (1 Unit)	250-12
21. 143999	NRCAPP-9799	Sadar Ballabh Bhai Patel Degree College, Plot No. 289, Street/Road - Makrandapur Road, Bhojipura, Village - Makrandapur Peetam Rai, Post Office - Bhojipura, Tehsil - Bareilly, Dist. Bareilly (UP) 243001	M.Ed.	2 Years	50 (1 Unit)	250-9
22. 144000 144999	NRCAPP-9905	IFTM University, Plot No. 273B, Village - Lodhipur Rajpur,Post Office- Pakabara, Tehsil - Moradabad, Dist. - Moradabad (UP) 244102	M.Ed.	2 Years	50 (1 Unit)	250-1
23. 144001	NRCAPP-10344	Rajat Girls Degree College, Plot no. 614 & 587, Street no. 614 & 587, Village - Kanchanpur Matiyari, P.O. -Chinhut, Tehsil - Sadar, Town- Lucknow, District -Lucknow-227105 , Uttar Pradesh	M.Ed.	2 Years	50 (1 Unit)	250-9
24. 144002	NRCAPP-10859	City Academy Degree College, Plot No. 327, Village - Uttardhauna, Post Office- Chinhat, Tehsil - Sadar, Dist. - Lucknow (UP) 227105	M.Ed.	2 Years	50 (1 Unit)	250-9
25. 144003	NRCAPP-10969	City College of Management, Plot No. 22, 24 & 26, Village - Uttardhauna, Post Office - Chinhat, Tehsil - Sadar, Dist. -Lucknow (UP) 227105	M.Ed.	2 Years	50 (1 Unit)	250-11
26. 144004	NRCAPP-11357	Excel Institute of Education and Research, Plot No. 139/1, Village - Chhata, Post Office - Chhata, Tehsil - Chhata, Dist. - Mathura (UP)	M.Ed.	2 Years	50 (1 Unit)	250-12
27. 144005	NRCAPP-12179	Tmimt College of Physical Education, Plot No. 1153 to 1158 and 1162A And B, Village - Bagarpur & pAKWARA, Post Office-Pakbara, Tehsil - Moradabad, Dist. - Moradabad, (UP) 244001	M.P.Ed.	2 Years	40 (1 Unit)	250-10
28. 144006	NRCAPP-12299	City Academy Degree College, Plot no. 327, 22, 23, 24, 25, 26, Street no. Tiwagiranj, Village - Uttardhauna, P.O. Chinhat, Tehsil - Sadar, Town- Lucknow, District - Lucknow - 227106, Uttar Pradesh	M.P.Ed.	2 Years	40 (1 Unit)	250-9
29. 144007	NRCAPP-15521	Savita Devi Mahavidyalaya, Plot No.-639, 492/1 Village- Kayasth Gaonwari, Post office- Mohiuddinpur, Tehsil/Taluka- Meerut, Town/City-Meerut, Distt.- Meerut, Uttar Pradesh-250205.	B.P.Ed.(Addl.)	2 Years	100 (1 Unit)	250-13
30. 144008	NRCAPP-13209	School of Education,Plot Number/Khasara No.-105, Street/Road-NH-24, Village/Town/City-Shabajpur Kla, Post Office- Shabajpur Kla, Tehsil/Taluka-Amroha, Town/City-Rajabpur, District:-Jyotiba Phule	B.A. / B.Sc.	4 years	One unit (50 students)	250 Part-XIII

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Annexure 7(a)

List of Research Paper Publication during last three year

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RESEARCH PAPERS PUBLISHED

(2023-24, 2022-23 & 2021-22)

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Summary Sheet of Research Paper Publication in Last 3 Years

(2023-24, 2022-23 & 2021-22)

Name of School	2023-24	2022-23	2021-22	Total
Faculty of Pharmacy	115	67	71	253
School of Agricultural Science & Engineering	12	8	15	35
School of Biotechnology	8	11	7	26
School of Business Management	39	23	36	98
School of Computer Science & Applications	23	14	26	63
School of Social Sciences	25	38	47	110
School of Engineering & Technology	24	5	10	39
School of Law	8	5	17	30
School of Sciences	33	30	19	82
TOTAL	**287**	**201**	**248**	**736**

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List of Research Paper Published

Session: 2023-24

S. No.	Title of paper	Name of the author/s	Name of journal	ISSN number
1	Fully Decentralized Block Chain with Proxy Re-Encryption Algorithm for Healthcare Security	Parag Rastogi, Devendra Singh, Sarabjeet Singh Bedi	International Journal Of Intelligent Engineering & Systems	2185-3118
2	Deep Learning-Based 5G Networks and IOVS: Advances, Meta-Data Analysis, and Future Direction	Singh, S. K., Mishra, A. K., & Singh, R. K	International Journal Of Intelligent Systems And Applications In Engineering,	2147-6799
3	The Effectiveness of Machine Learning and Image Processing in Detecting Plant Leaf Disease	Nagila, A., & Mishra, A. K	The Scientific Temper	0976-8653
4	A Novel Technique for Classifying Lung Lesions Using Convolutional Neural Network Optimization Techniques	Ritu Nagila and Abhishek Kumar Mishra,	Indian Journal Of Natural Sciences (IJONS)	0976-0997
5	An Innovative Approach of CNN-Bigru Based Post-Earthquake Damage Detection of Reinforced Concrete for Frame Buildings	Ashish Nagila, P. Saravanakumar, Pranavan S, Ravi Goutam, Dinesh Chandra Dobhal, Gagan Singh	IEEE	10.1109/ICSSAS57918.2023.10331894
6	Improving Facial Recognition Accuracy Using Local Binary Patterns	Prof Neeraj Bhargava, Pramod Singh Rathore, Deepshikha Saxena, Ankur Goswami	IEEE	10.1109/ASIANCON58793.2023.10269842
7	An Automated Abnormality Diagnosis and Classification in Brain MRI Using Deep Learning"	Ravendra Singh, Bharat Bhushan Agarwal	International Journal On Recent And Innovation Trends In Computing And Communication	2321-8169
8	Methodological Implementation for Predicting Student Performance Using Data Mining Classifiers and Machine Learning	Mini Agarwal, Bharat Bhushan Agarwal	4Th IEEE International Conference On Computing, Communication And Intelligent Systems.	Conference

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S. No.	Title of paper	Name of the author/s	Name of journal	ISSN number
9	Methodical Implementation of Data Mining Classifiers and Ann for Prediction of Accomplishment of Student Education	Mini Agarwal, Bharat Bhushan Agarwal	International Journal Of Performability Engineering	0973-1318
10	Recognition of Suspicious Human Activity in Video Surveillance: A Review	Gupta, N., Agarwal, B.B.	Engineering, Technology And Applied Science Research	1792-8036
11	Suspicious Activity Classification in Classrooms Using Deep Learning	Gupta, N., Agarwal, B.B.	Engineering, Technology And Applied Science Research	1792-8036
12	Detecting High-Risk Pregnancies and Premature Births: A Comprehensive Survey	Dr. Rahul Kumar Mishra, Dr. Arvind kumar Shukla	Educational Administration: Theory And Practice	2148-2403
13	Precision Agriculture Predictive Modeling and Sensor Analysis for Enhanced Crop Monitoring	Dr Arvind Kumar Shukla	The Scientific Temper (2023)	0976-8653
14	Transduction Based Deep Belief Networks Learning-Based Multi-Camera Fusion for Robust Scene Reconstruction	Dr Arvind Kumar Shukla	ICTACT Journal On Image And Video Processing (Volume: 14 , Issue: 1)	0976-9102
15	Deep Learning-Based Fault Detection in Nano Electronics Circuits for Robustness Enhancement	Dr Arvind Kumar Shukla	Ictact Journal On Microelectronics	2395-1680
16	Swarm Intelligence Embedded Data Mining for Precision Agriculture Advancements	Dr Arvind Kumar Shukla	ICTACT Journal On Soft Computing	2229-6956
17	Verification of Hybrid Model for Big Data Privacy-Preserving in D2D Communication Implementation and Security	Shelly Bhardwaj, Dr. Abhishek Kumar Mishra, Dr. Rahul Kumar Mishra	Indian Journal Of Natural Sciences	0976 – 0997

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S. No.	Title of paper	Name of the author/s	Name of journal	ISSN number
18	Recent Developments in Flexible Printed Electronics and Their Use in Food Quality Monitoring and Intelligent Food Packaging	Dr Arvind Kumar Shukla	The Scientific Temper (2023)	0976-8653
19	Phishing Detection Using Base Classifier and Ensemble Technique	Dr. Arvind Kumar Shukla, Dr. Manish Ranjan Pandey	International Journal On Recent And Innovation Trends In Computing And Communication	2321-8169
20	Internet of Things (Iot) Based Machine Learning Techniques for Wind Energy Harvesting	Dr Arvind Kumar Shukla	Electric Power Components And Systems	1532-5008
21	Machine Learning and Sensor-Cloud Based Precision Agriculture for Intelligent Water Management for Enhanced Crop Productivity	Dr Arvind Kumar Shukla	Journal Of Electrical Systems	1112-5209
22	Deep Learning-Based Noise Reduction Techniques in Electronic Signal Processing	Dr. Lalit Johari	IEEE Publication ICONSTEM 2024	9798-3503-65108
23	Enabling Smart Urban Mobility Through Internet Of Vehicles (Iov): A Comprehensive Review	Dr. Lalit Johari	Journal Of Emerging Technologies And Innovative Research (JETIR)	2349-5162
24	Nanostructured Lipid Carriers: A Promising Carrier in Targeted Drug Delivery System	Tiwari Varsha, Tiwari Abhishek,	Current Nanomaterials	2405-4623

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S. No.	Title of paper	Name of the author/s	Name of journal	ISSN number
25	Formulation Development and Optimization of Rosuvastatin Loaded Nanosuspension for Enhancing Dissolution Rate	Tiwari Abhishek, Tiwari Varsha	Current Drug Therapy	2405-4623
26	Microwave Induced Green Synthesis: Sustainable Technology for Efficient Development of Bioactive Pyrimidine Scaffolds	Abhishek Tiwari, Varsha Tiwari	Current Medicinal Chemistry	1875-533X
27	Synthesis and Computational Study of Some New 1-(1H-Indol-1-Yl)Ethanone Derivatives on Cox-2 Enzyme and Evaluation of In-Vivo Analgesic and Anti-Inflammatory Activity	Arvind Kumar, Deepika Kumar, Mayur Porwal and Arun Kumar Mishra	Letters In Drug Design & Discovery	15701808
28	A Systemic Review on Sesamum Indicum L.: Bridging Traditional Information and Pharmacological Indications for Future Translational Research	Shivam, Phool Chandra,Neetu Sachan	Current Traditiuonal Medicne	2215-0838
29	Carbapenem Antibiotics: Recent Update on Synthesis and Pharmacological Activities	Tiwari Abhishek, Tiwari Varsha	Current Drug Research Reviews	2589-9783
30	A Review on Polymeric Nanostructured Micelles for the Ocular Inflammation - Main Emphasis on Uveitis	Tiwari Abhishek, Tiwari Varsha	Pharmaceutical Nanotechnology	2211-7385
31	Ameliorative Potential of Cyclopyrrolones (Zopiclone) on Gaba-A Receptor in Neuropathic Pain	Krishana Kumar Sharma, Prashant Upadhyay, Phool Chandra	Journal Of Pharmaceutical Negative Results	0976-9234

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S. No.	Title of paper	Name of the author/s	Name of journal	ISSN number
32	Formulation and Evaluation of Double-Layered (Matrix and Drug-In-Adhesive) Transdermal Patches of Diclofenac Diethylamine: in Vitro and Ex Vivo Permeation Studies	Aditya Sharma, Navneet Verma	Indian Journal Of Pharmaceutical Education And Research	0019-5464
33	Pharmacological Evaluation of Analgesic, Anti-Pyretic and Anti-Inflammatory Activities of Ethanolic Root Extract of Amaranthus Caudatus	Kumar V, Monika K, Rathi B, Agarwal R, Khan NA, Swain SR	Journal Of Drug Delivery And Therapeutics	2250-1177
34	A Review on Formulation and Evaluation Approaches for Fast Release Tablet	Prashant Upadhyay, Kalpana, Priya Chaudhary, Sukirti Upadhyay	Mathews Journal Of Pharmaceutical Science	2474-753X
35	Evaluation of Mechanism(S) of Action Underlying the Antioxidant and Antiulcer Activity of Sesamum Indicum Leaves Extract in Experimental Rats	Shivam, Phool Chndra,Neetu Sachan	Indian Journal Of Pharmacology	0253-7613
36	An Insight Into Neuropathic Pain Is Systematic and Up-To-Date Review	Himanshu Sharma, Tanzeeb Rani, Shahbaz Khan	International Journal Of Pharmaceutical Sciences And Research.	0975-8232
37	Isolation, Characterization and Docking Studies of Isolated Compounds As Antidiabetic Molecules from Scindapsus Officinalis (Roxb).	Pawan Tiwari, Gurdeep Singh, Ritesh Patel, Mukesh Kr. Singh	Research J. Pharm. And Tech	0974-3618
38	Exploring the Role of Nanotherapeutics for Diagnosis and Treatment of Solid Tumor	Tiwari Abhishek, Tiwari Varsha	Current Nanoscience	1875-6786

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43	Molecular Docking and Simulation Analysis of Cyclopeptides As Anticancer Agents	Abhishek Tiwari, Varsha Twari	Current Drug Therapy	2212-3903
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99	Neuroprotective Effects of Isolated Mangiferin from Swertia Chirayita Leaves Regulating Oxidative Pathway on Streptozotocin-Induced Diabetic Neuropathy in Experimental Rats	Shivam, Asheesh Kumar Gupta	Central Nervous System Agents In Medicinal Chemistry	1875-6166
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135	Analgesic Activity of Ethanolic Extract and Fluorescence Analysis of Blumea Mollis (D.Don) Merr.	Santosh Kumar, Phool Chandra, Munesh Mani	African Journal Of Biological Sciences	2663-2187

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9	Energy-Efficient Flexible Flow Shop Scheduling With Due Date and Total Flow Time	Dr. Devendra Singh	International Journal on Recent and Innovation Trends in Computing and Communication	2321-8169
10	The effectiveness of machine learning and image processing in detecting plant leaf disease	Ashish Nagila, Abhishek Kumar Mishra	The Scientific Temper	2231-6396
11	Verification of K-Anonymity Model using Mapreduce for Big Data Privacy Preserving in D2D Communication	Shelly Bhardwaj, Abhishek Kumar Mishra, and Rahul kumar Mishra	Indian Journal of Natural Sciences	0976–0997
12	Design and Verification of hybrid model for Big data Privacy preventing in D2D Comnication Environment	Shelly Bhardwaj, Abhishek Kumar Mishra, and Rahul kumar Mishra	Journal of Positive School Psychology	2717-7564
13	Relay Node-Based Routing Algorithm for Reducing Latency in Industrial Mobile Communication Network	Arvind Kumar Shukla	Wireless Communications and Mobile Computing	1530-8677
14	Cloud Computing with Artificial Intelligence Techniques for Effective Disease Detection	Arvind Kumar Shukla	International Journal of Data Informatics and Intelligent computing (IJDIIC)	2583-6250
15	Studies on insect-pests complex in mustard (Brassica juncea L.)	SK Yadav, RB Singh, Himanshu Trivedi and Ramveer Singh	International Journal of Biology Sciences 2022; 4(1): 106-109	2664-9934
16	Effect of Sowing Methods and Irrigation Levels on Wheat (Triticum aestivum L.)	Satybhan Singh, Virendra Singh, Ramesh Pal, Himanshu Trivedi, Ashesh Narayan and Mohit Gautam	Ecology, Environment and Conservation	0971-765X
17	Reckoning the Implementation of Paddle Operated Single Roll Farm Yard Manure Applicator under Protected Cultivation	Gargi Shekhar, Ramesh Pal, Happy Narang, Virendra Singh, Sachin Chaudhary, Satybhan Singh and T.P. Singh	Ecology, Environment and Conservation	0971-765X
18	Genetic Variability, Heritability and Genetic Advance among Wheat (Triticum aestivum L.) Genotypes	Sumit Kumar and Y.P. Singh	Frontiers in Crop Improvement	2454-6011

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19	Study on Attributes of Farm Yard Manure for Paddle Operated Mechanical Applicator	Gargi Shekhar, Satybhan Singh, Ramesh Pal, Himanshu Trivedi, Virendra Singh and Ashesh Narayan	Ecology, Environment and Conservation	0971-765X
20	Effect of Biofertilizers and Phosphorus Levels on Growth, Yield and Nodulation of Black Gram (Vigna mungo)	Rohit Gautam, Richa Khanna, Krishan Pal, Virendra Singh, Abhay Saini and Mohit Gautam	Crop Research	2454-1761
21	Development of value added products prepared from bael (Aegle marmelos L.) powder and its quality evaluation	Vipul Chaudhary, Vivak Kumar, Harsh P Sharma, Vijay Kumar Singh, Vaishali, Arjun Sanjay Paul, Ankur Mahendra Arya and Sunil	The Pharma Innovation Journal 2023	2277-7695
22	In sillico screening and molecular docking studies of potential inhibitors of PP1Y2	Ms. Ritika Saxena	Advances and Applications in Mathematical Sciences	0974-6803
23	Structural, Physiological, Biochemical and Biotechnological Aspects of Mammalian Spermatozoa: An Overview	Ms. Ritika Saxena	Journal of Infertility and Reproductive Biology	2310-7588
24	Designing of new tetrahydro-β-carboline-based ABCG2 inhibitors using 3D-QSAR, molecular docking, and DFT tools	Dr. Tanzeel Ahmed	Journal of Biomolecular Structure and Dynamics	1538-0254
25	Sustainable Intensification of Cropping Systems under Conservation Agriculture Practices: Impact on Yield, Conservation Agriculture Practices: Impact on Yield, Productivity and Profitability of Wheat	Dr. Damini Maithani	Sustainability	2071-1050
26	Synergistic impact of nanomaterials and plant probiotics in agriculture: A tale of two-way strategy for long-term sustainability	Dr. Damini Maithani	Frontiers of Microbiology	1664-302X

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27	Prokaryotic diversity and community structure in the rhizosphere of Lantana weed (Lantana camara L.)	Dr. Damini Maithani	Frontiers in Plant Science	1664-462X
28	Sustainable Development Goals: Implementation and Challenges in India	Mr. Vivekanand , Dr. Upendra Grewal	CPJ Law Journal	0976-3562
29	Lynching and Human Rights: An analytical Study in Indian Perspective	Mr. Upendra Grewal , Dr. Shilpi Gupta	Indian Journal of Law and Legal Research	2582-8878
30	Legal Protection of Utility Model under Intellectual Property Rights Regime: A Need of Review Existing IPR Legislation	Dr. Yogendra Singh	NIU International Journal of Human Rights	2394- 0298
31	Offence Of Female Foeticide And Infanticide: A Socio- Legal Study In Indian Context	Dr. Yogendra Singh	Shodhsamita	2277-7067
32	An Advance DTC-SVM Scheme For A Three Phase Induction Motor Using A Ts Fuzzy Controller	Dr. Anil Kumar	Indian Journal Of Natural Sciences	0976-0997
33	Comparison different design of solar Air Heater with the simple solar air heater of having reflecting mirrors	Vineet Singh	J Mechanical Engineering Science	0954-4062
34	Optimization and Validation of Solar Pump Performance by MATLAB Simulink and RSM	Vineet Singh	EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy	2432-5953
35	Solar photovoltaic water pump performance optimization by using response surface methodology	Vineet Singh	Environmental progress & sustainable energy	1944-7450
36	A Critical Study of Effectiveness of Programme Instruction (PI) and Computer Assissted Instruction (CAI) for Mathmatical	Prof. M.P. Pandey, Neha Sharma	Shodh Prabha	0974-8946

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37	समाज पर सोशल मीडिया का प्रभाव एक विश्लेषणात्मक अध्ययन	Pulkit Sharma & Dr. Rajesh Kumar Shukla	Jyotirveda Prasthanam	2278-0327
38	भारत में समावेशी शिक्षा या उसकी उपदेयता एक शैक्षिक अध्ययन	Dr Rajkumari Gola	Triamasik Sahityatik Shodh Patrika NAAGPANI	2321-1504
39	A Study of Impact Of Modern Technologies on Society	Dr Mohan LaL Arya	Triamasik Sahityatik Shodh Patrika NAAGPANI	2321-1504
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41	प्राथमिक विद्यालय के शिक्षकों की भावनात्मक बुद्धि का अध्ययन मुरादाबाद जनपद के संदर्भ में	Dr Mohan LaL Arya &Richa Agarwal	Jyotirveda prasthanam	2278-0327
42	मुरादाबाद जनपद के माध्यमिक विद्यालय में अध्ययनरत विद्यार्थियो की शैक्षिक उपलाब्धि पर मानसिक दवाब के प्रभाव का अध्ययन	Dr Mohan LaL Arya & Km Priyanks	Jyotirveda prasthanam	2278-0327
43	A Survey: An Attention On Digital Information Sources and Services Among UG/PG and Research Students of IFTM University	Dr Ashok kumar & Dr B.K Rajput	Triamasik Sahityatik Shodh Patrika NAAGPANI	2321-1504
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45	A Study on the promotion of Bareilly international Universtiy Library information products and sercices	Dr B.K Rajput & Priya	Triamasik Sahityatik Shodh Patrika NAAGPANI	2321-1504

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47	बाज़ार का यथार्थ और समकालीन हिंदी कविता	Dr Mohit Mishra	Varanasi Management Review	2395-0390
48	समकालीन पत्रकारिता और बाज़ार का संकट	Dr Mohit Mishra	Research Highlight	2350-0611
49	Condition of Women in the Canterbury Tales	Dr Sarika Dubey	International journal of Creative Research Thoughts (IJCRT)	2320-2882
50	Emotional Competence of Upper Primary Level Students Analytical Study in Light of demographic variables	Prof. Rajkumari Singh, Ms Nikita Yadav	Annals of the Bhandarkar Oriental Research Institute	0378-1143
51	A Critical Analysis of NEP-2020 In school education in relation to Emotional Competence	Prof. Rajkumari Singh, Ms Nikita Yadav	Journal of The Asiatic Society of Mumbai	0972-0766
52	स्वयं सहायता समूह में महिलाओं की आर्थिक स्थिति का एक समाजशास्त्रीय अध्ययन	Dr Sarita	International Journal Of Novel Research And Development (Ijnrd)	2456-4184
53	भारतीय शिक्षा के ऐतिहासिक परिप्रेक्ष्यः एक विश्लेशणात्मक अध्ययन	Dr Mohan LaL Arya	Ashwast	2456-8856
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55	"माध्यमिक विद्यालयों में अध्ययनरत् विद्यार्थियों की शैक्षिक उपलब्धि पर मानसिक स्वास्थ्य के प्रभाव का अध्ययन"	'Arya', Mohan Lal & Km Priyanka	Jyotirveda Prasthanam,	2278-0327

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57	विद्यार्थियों में मोबाइल फोन की लत या प्रयोग का शैक्षिक उपलब्धि पर प्रभावः एक अध्ययन	'Arya', Mohan Lal	Jyotirveda Prasthanam,	2278-0327
58	सम्भल जनपद में माध्यमिक स्तर पर अध्ययनरत् सामान्य एवं विकलांग विद्यार्थियों की व्यक्तित्व समायोजन का विश्लेषणात्मक अध्ययन	Anamika Bharti & 'Arya', Mohan Lal	Jyotirveda Prasthanam,	2278-0327
59	An Analytical Study of Teacher Effectiveness belonging to different Areas in Moradabad District	'Arya', Mohan Lal & Megha Khanna	नागफनीः त्रैमासिक साहित्यिक पत्रिका	2321-1504
60	A Study of the Emotional Intelligence of Primary School Teachers in Moradabad District",	'Arya', Mohan Lal & Richa Agrawal	नागफनीः त्रैमासिक साहित्यिक पत्रिका,	2321-1504
61	माध्यमिक तथा उच्च शिक्षण संस्थाओं के विद्यार्थियों का पर्यावरण सम्बन्धी ज्ञान तथा उसके प्रभाव के ज्ञान का अध्ययन	'Arya', Mohan Lal & Parina Bansal	नागफनीः त्रैमासिक साहित्यिक पत्रिका,	2321-1504
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63	An Analytical study of Principal's Academic Role and his Professional Development	Arya', Mohan Lal (2022),	नागफनीः त्रैमासिक साहित्यिक पत्रिका,	2321-1504
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65	Teacher Effectiveness in Relation to their Emotional Intelligence and Job-Satisfaction	'Arya', Mohan Lal and Megha Khanna	नागफनीः त्रैमासिक साहित्यिक पत्रिका,	2321-1504

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67	मुरादाबाद जनपद के उच्चतर माध्यमिक विद्यालय की छात्र छात्राओं के समयोजन का तुलनात्मक अध्ययन	Dr Pradeep Kumar Tiwari	Madhya Bharti-Humanities and Social Sciences	0974-0066
68	उधम सिंह नगर के माध्यमिक विद्यालय में पढने वाली विभीन वर्ग की क्षेत्र एवं संकाय के बालिकाओ के मानव अधिकार के प्रति जागरूकता का अध्ययन	Dr Pradeep Kumar Tiwari	Shodh Prabha	0974-8946
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70	Innovative Practices in Teacher Education	Dr Rajkumari Gola	Ashwast	2456-8856
71	Issue and challenges of higher education in indian Perspective	Dr Rajkumari Gola	नागफनीः त्रैमासिक साहित्यिक पत्रिका,	2321-1504
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74	An insight into Neuropathic pain is systematic and up-to-date review	Himanshu Sharma, Tanzeeb Rani, Shahbaz Khan	International Journal of pharmaceutical sciences and research.	0975-8232
75	Antimicrobial activity of Haldina cordifolia (Roxb.) Ridsdale and Thevetia peruviana (Pers.) Schum. leaf extract against multidrug resistant microbes	Pragyandip P. Dash, Sushil Kumar, Anuradha Mishra and Sajal Srivastava	Annals of Phytomedicine	2278-9839

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76	Application of Face Centered Central Composite Design in Evolution of Optimized Drug Delivery System of Golden Nutraceutical with Frame Independent Variables	Vijay Sharma*, Pawan Singh, Lalit Singh and Navneet Verma	Current Cosmetic Science	2666-7797
77	Assessment of Analgesic and Anti-inflammatory Activity of Double-layered Diclofenac Diethylamine Transdermal Patch	Aditya Sharma, Navneet Verma	Biomedical & Pharmacology Journal	0974-6242
78	Assessment of Dermal Toxicity Profile of Root Bark Extract of Berberis aristata	Alankar Shrivastav*, Arun K Mishra, Asheesh K Gupta	International Journal of Drug Delivery Technology	0975 4415
79	Carbapenem Antibiotics: Recent Update on Synthesis and Pharmacological Activities	Tiwari Abhishek, Tiwari Varsha, Verma Navneet	Current Drug Research Reviews	2589-9783
80	Comparative Studies of Babularista with different marketed brands herbal Formulation	Bhasker Kumar, Sukriti Upadhyay	Journal of Survey in Fisheries Sciences	2368-7487
81	Design and Statistical Optimization of Novel Polyelectrolyte Complex Microbeads to Improve Entrapment Efficiency and Release Study of Vildagliptin	Mukesh Kr. Singh	Recent Advances in Drug Delivery and Formulation	2667-3886
82	Development and Validation of Liquid Chromatography-Tandem Mass Spectrometry Method for Simultaneous Determination of Tramadol and Its Phase I and II Metabolites in Human Urine	Abhishek Tiwari, Varsha Tiwari	Separations	2297-8739
83	Effect Of Metabotropic Glutamate 5 Receptor Antagonists Modulator In Rats With Neuropathic Pain	Prashant Upadhyay	Journal of Pharmaceutical Negative Results	0976-9234
84	Effects of selective GABA-A agonists modulator in rats with neuropathic pain	Prashant Upadhyay	Annals of Forest Research	1844-8135

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86	Evaluation of Antidiarrheal Activity of Bryophyllum Pinnatum Lam. (Oken) Leaves Extracts and Isolation of Active Constituent.	Priyanka Yadav, Arun K Mishra and Harpreet Singh	Oriental Journal Of Chemistry	0970-020X
87	Evaluation of CNS Depressant and Behavioral Activity of an Ethanol Extract of Ziziphus Jujuba (BER) in Mouse Model	Sukirti Upadhyay, Bhaskar Kumar, Prashant Upadhyay	Asian journal of pharmaceutical and clinical research	2455-3891
88	Evaluation of mechanism(s) of action underlying the antioxidant and antiulcer activity of Sesamum indicum leaves extract in experimental rats	Shivam	Indian Journal of Pharmacology	0253-7613
89	Evaluation Of Wound Healing Potential Of Root Bark Extract Of Berberis Aristata And Molecular Docking Analysis Of Berberis Phytoconstituents.	Alankar Shrivastav*, Arun K Mishra, Asheesh K Gupta	Current Drug Discovery Technologies	1570-1638
90	Exploration of hepatoprotective and antidiabetic potential of Senna occidentalis L. and isolation of a bioactive compound by column chromatography	Arun Kumar Mishra, Harpreet Singh, Arvind Kumar, Amrita Mishra	South African Journal of Botany	0254-6299
91	Exploring graphene and its potential in delivery of drugs and biomolecules	Abhishek Tiwari, Varsha Tiwari	Journal of Drug Delivery Science and Technology	2588-8943
92	Exploring the Role of Nanotherapeutics for Diagnosis and Treatment of Solid Tumor	, Tiwari Abhishek, Tiwari Varsha	Current Nanoscience	1875-6786
93	Formuaton and Characterization of an In-situ gel of ciprofloxacin Hydrochiloride as a novel approach for sustained release for ocular dilivery	Diksha, Prevesh Kumar, Navneet Verma, Munesh Mani, Aditya Sharma	Neuroquantology	1303-5150

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94	Formulation and Evaluation of Double-layered (Matrix and Drug-in-adhesive) Transdermal Patches of Diclofenac Diethylamine: in vitro and ex vivo Permeation Studies	Aditya Sharma, Navneet Verma	Indian Journal of Pharmaceutical Education and Research	0019-5464
95	Formulation and Evaluation of Herbal Ointment of Berberis aristata for Inhibition of Psoriasis-like Symptoms	Alankar Shrivastav*, Arun K Mishra, Asheesh K Gupta	Biosciences Biotechnology Research Asia,	0973-1245
96	Formulation and Evaluation of Tea tree/ Rosemary Essential oil-based Microemulsion for Antimicrobial Activity	Pooja Malik, Prashant Upadhyay	Biosciences Biotechnology Research Asia	0973-1245
97	Formulation Development and Optimization of Rosuvastatin Loaded Nanosuspension for Enhancing Dissolution Rate	Tiwari Abhishek, Tiwari Varsha	Current Drug Therapy	2405-4623
98	GC-MS Chemical profile, Antioxidant Activity, and Sun Protection Factor of Essential Oil of Tea Tree (Melaleuca alternifolia) and Rosemary (Rosmarinus officinalis L.)	Pooja Malik, Prashant Upadhyay	Oriental Journal of Chemistry	0970-020X
99	Histological and In Vivo Study on Novel Polyelectrolyte Complex Vildagliptin Loaded Microbeads in Streptozotocin-induced Rat Model	Mukesh Kr. Singh	Current Diabetes Reviews	1573-3998
100	Hydrophobically Modified Abelmoschus Esculentus Polysaccharide Based Nanoparticles and Applications: A Review	Prashant Upadhyay, Sukirti Upadhyay	Current Drug Discovery Technologies	1875-6220
101	In-Vitro evaluation of antibacterial and antifungal activities of medicinal plant bauhinia vahlii	Diwakar Shukla, Munesh Mani, Navneet Verma	International Journal of pharmaceutical sciences and research	0975-8233
102	IPN beads prepared by tailoring of cassia tora gum and sodium carboxymethyl cellulose using Al+++ for controlled drug delivery	Alka Lohani, Mohit Maurya, Sushil Kumar, Navneet Verma.	Journal of Drug Delivery Science and Technology	2588-8943

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103	Isolation, Characterization and Docking Studies of Isolated Compounds as Antidiabetic Molecules from Scindapsus officinalis (Roxb).	Mukesh Kr. Singh	Research J. Pharm. and Tech	0974-3618
104	Mechanistic role of Tempol: Synthesis, Catalysed reactions and therapeutic potential	Tiwari Abhishek, Tiwari Varsha	Medicinal Chemistry	1875-6638
105	Microwave Induced Green Synthesis: Sustainable Technology for Efficient Development of Bioactive Pyrimidine Scaffolds	Abhishek Tiwari, Varsha Tiwari	Current Medicinal Chemistry	1875-533X
106	Molecular Docking and Simulation Analysis of Cyclopeptides as Anticancer Agents	Abhishek Tiwari, Varsha Twari	Current Drug Therapy	2212-3903
107	Molecular docking studies on the phytoconstituents as therapeutic leads against SARS-CoV-2	Abhishek Tiwari, Varsha Tiwari, Navneet Verma	Polimery	0032-2725
108	Nanostructured Lipid Carriers: A Promising Carrier in Targeted Drug Delivery System	Tiwari Varsha, Tiwari Abhishek	Current Nanomaterials	2405-4623
109	Pharmacognostical Review on Ocimum Sanctum and Zingiber Officinale	Prevesh Kumar, Shweta Mishra, Navneet Verma, Diksha, Ashwin Kumar Saxena, Munesh Mani, Neelkant Prasad	Neuroquantology	1303-5150
110	Phytochemical Screening and HPTLC Analysis of Bio-active Markers of Ethanol Extract of Indian Bay Leave	Azhar Danish Khan, Mukesh Kr. Singh, Pallavi Manish Lavhale & Rahul Kaushi	Journal of Herbs, Spices & Medicinal Plants	1540-3580
111	Polyherbal phytosomal gel for enhanced topical delivery: design, optimization by central composite design, in vitro and ex-vivo evaluation	Azhar Danish Khan, Mukesh Kr. Singh & Pallavi Manish Lavhale	Journal of Dispersion Science and Technology	1532-2351

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113	Recent Advancements in Liquid Chromatographic Techniques to Estimate Pesticide Residues Found in Medicinal Plants around the Globe	Arun K Mishra , Harpreet Singh , Arvind Kumar, Himanshu Gupta, Amrita Mishra	Current Reviews in Analytical Chemistry	1040-8347
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41	From Cosmetics To Innovative Cosmeceuticals-Non-Woven Tissues As New Biodegradable Carriers	Pierfrancesco Morganti, Gianluca Morganti, Alessandro Gagliardini, Alka Lohani	Cosmetics	2079-9284
42	Formulation, Development & Evaluation of Oral Disintegrating Tablet of Metoprolol Tartrate	Pooja Malik, Prashant Upadhyay, Sukirti Upadhyay, Sushil Kumar, Payal Malik, Ritta Yadav	International Journal of Pharmaceutical Research and Applications	2456-4494
43	Vesicular Approach Review on Nanocarriers Bearing Curcumin and Applications	Prashant Upadhyay, Deepak Singh and Sukirti Upadhyay	Recent Advances in Drug Delivery and Formulation	2667-3878
44	Hydrophobically Modified Abelmoschus Esculentus Polysaccharide Based Nanoparticles and Applications: a Review	Prashant Upadhyay, Shivani Agarwal, Sukirti Upadhyay	Current Drug Discovery Technologies	1570-1638
45	An Overview in Fecal Microbiota Transplantation and It's Therapeutic Applications on Dysbiosis: as Golden Juice	Prevesh Kumar, Diksha, Munesh Mani, Niharika Lal, Navneet Verma	Asian Journal of Pharmaceutics	1998-409X
46	Phytochemicals and Medicinal Properties of Stevia Rebaudiana: A Review	Prevesh Kumar, Munesh Mania, Dikshaa, Arvind Kumara, Varsha Raja, Navneet Vermaa,	Advance in Bioresearch	2277-1573
47	Pharmacognostical Review on Ocimum Sanctum and Zingiber Officinale	Prevesh Kumar, Shweta Mishra, Navneet Verma, Diksha, Ashwin Kumar Saxena, Munesh Mani, Neelkant Prasad	Neuroquantology	1303-5150
48	Behavioral and Biochemical Investigation of Amaranthus spinosus for antstress and nootropic activity on rats	Raj kumar Singh Bharti, Amit Kumar, Munna Singh, Ankita tripathi and Priya Pandey	Journal of Biological & Scientific Opinion	2321-6328

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50	Synthesis of Some New Acetanilide Derivatives As Cox Inhibitors And Assessment Of Analgesic/ Anti-Inflammatory Activities	Rajib Kumar Singh, Arvind Kumar And Arun K. Mishra	Oriental Journal Of Chemistry	2231-5039
51	Five Different Noise Intensities Robustly Affects Corticosterone, Gastrin And Endothelin-1 Response And Initiated Gastric Tissue Damage In Wister Rats	Ravinder K Mehra, Mahesh Prashad, Dinesh K Sharma, Prevesh Kumar	Journal of Pharmaceutical Research International	2456-9119
52	A Comprehensive Review on Anti-obesity Potential of Cyperus Rotundus in Experimental Animals	Rita Yadav, Dr. Munesh Mani	YMER	0044-0477
53	Isolation Of Thymol From Trachyspermum Ammi Fruits For Treatment Of Diabetes And Diabetic Neuropathy In Stz-Induced Rats	Sachan N, Saraswat N, Chandra P, Khalid M, Kabra A	Biomed Research International	2314-6141
54	A Comprehensive Review on Therapeutic Potentials of Natural Cyclic Peptides	Saharan Renu, Kumar Suresh, Khokra Lal Sukhbir, Singh Sunil, Tiwari Abhishek, Tiwari Varsha, Sahoo Mohan Biswa, Kumar Manish	Current Nutrition & Food Science	2212-3881
55	Immediate-Release Drug Delivery System, Current Scenario, And Future Perspective-A Narrative Review	Sakshi Garg, Ashok Kumar, Varsha Deva, Preeti Biswas, Harsh Rastogi, Heena Farooqui	Jundishapur Journal of Microbiology	2008-3645
56	Prophecy of Indolizine Containing C200-3231 Using Molecular Dynamic Simulations and Machine Learning Methods Against Chronic Myeloid Leukemia Disease	Sangeeta Mahaur, Sukirti Upadhyay and Jitendra	World Journal of Pharmaceutical Research	2277-7105
57	Quantum Dots: An Emerging Approach For Cancer Therapy.	Sheetal Devi, Manish Kumar, Abhishek Tiwari, Varsha Tiwari, Deepak Kaushik, Ravinder Verma, Shailendra Bhatt, Biswa	Frontiers in Materials	2296-8016

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60	QSAR Modeling Of a-Ketooxazole Motif Analogues As Potent Anti-Alzheimer Agents	Smita Jain, Neha Chauhan, Abhay Bhardwaj, Giriraj Yadaw, Mukesh Kr. Singh, Achal Mishra	YMER	0044-0477
61	Anti-Arthritic Evaluation Of Ginger, Colchicum And Detoxified Nux-Vomica Combination For Poly Herbal Unani Formulation.	Syed Shariq Mian, Sukirti Upadhyay, Tajuddin	Biomedical Pharmacology Journal	0974-6242
62	An Updated Review On Pharmacognostical Characteristics And Pharmacological Activities Of Artemisia Annua	Varsha Raj, Manveer Singh, Munesh Kumar Mani, Navneet Verma	Advances in Bioresearch	2277-1573
63	Hepatoprotetive Potential of Prunus Armeniaca Against the Aluminium Sulphate Induced Liver Toxicity in Rats	Varsha Raj, Munesh Mani,prevesh Kumar,navneet Verma	Bulletin of Environment, Pharmacology and Life Sciences	2277-1808
64	Iron Overload Induced Liver Toxicity of Ethanol Extract of Ficus Religiosa in Mice	Varsha Raj, Navneet Verma, Abhishek Suman	Advances in Bioresearch	2277-1573
65	An Updated Review On The Therapeutic Potential Of Prunus Armeniaca	Varsha Raj, Prevesh Kumar, Munesh Kumar Mani, Navneet Verma	International Journal of Pharmaceutical sciences and Research	0975-8232

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67	Isolation, Characterization Of Active Constituent And Evaluation Of Hepatoprotective Activity Of Inula Racemosa Hook. F. Roots O	Vivek Kumar, Harpreet Singh, Arun Kumar Mishra	Oriental Journal Of Chemistry	0970 - 020X
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69	Evaluation Of Anti-Obesity Activity Of Nagarmotha In High Fat Diet- Induced Obesity In Rat	Yadav R , Mani M And Raj V	International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS)	2277–4998
70	Synthesis and Biological Evaluation of Some New Chalcone Derivatives as Anti-inflammatory Agents	Zia Ur Rehman, Pooja Saini and Sushil Kumar	Current Drug Discovery Technologies	1570-1638
71	A brief study on standardization and evaluation of ayurvedic preparations of Ushirasava	Sukriti Upadhyay, Bhaskar Kumar	YMER	0044-0477
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73	Alternations in Biochemical Components in Chilli (Capsicum Annuum L.) Plant Infected with chilli leaf curl viral disease	An Chaubey And Rs Mishra	Journal of Experimental Agriculture International	2457-0591
74	Effect of integrated nutrient management on soil fertility and soil microbial population after cropping to wheat crop in wetern uttar pradesh	Anuj Kumar, Kamlesh Kumar Yadav, Virendra Singh, Uma Shankar Tiwari, Dinesh Kumar And Pankaj Singh	International Journal of Plant & Soil Science	2320-7035

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76	Response of bio-enhancers on rooting of hard wood cuttings of bougainvillea (Bougainvillea glabra L.) var. Shubhra	Himanshu Trivedi, Km. Pooja, Ravi Prakash Mishra, Neelmani Singh, Sk Yadav And Hitesh Kumar Saini	The Pharma Innovation Journal	2277- 7695
77	Response of bio-enhancers on growth and yield of marigold (Tagetes erecta L.) cv. Punjab Gainda No.1.	Himanshu Trivedi, Neelmani Singh, Km Pooja, Sk Yadav, Satybhan Singh, Sk Sharma And Hitesh Kumar Saini	The Pharma Innovation Journal	2277- 7695
78	Response of Wheat (Triticum aestivum L.) to Zinc and Boron Fertilization	Monu Kumar, Satybhan Singh, Virendra Singh, Rajesh Singh Chauhan And Nitin Kumar Diwakar	Frontiers in Crop Improvement	2454-6011
79	Studies on genetic diversity of garden pea (Pisum sativum L.)	Navneet Kaur, V. K. Dhangrah And Y. P. Singh	Research Journal of Agricultural Sciences - An International Journal	2249-4538
80	Impact of Micronutrients and Plant Bioregulators on Yield of Okra and Potato	Pradeep Kumar And V. K. Dhangrah	Research Journal of Agricultural Sciences	2249-4538
81	A Review on Seed Pelleting in Increasing the Production Potential of Pulses	Richa Khanna, Anil Nath, Krishan Pal and Pankaj Kumar Ojha	AMA, Agricultural Mechanization in Asia, Africa and Latin America	0084-5841
82	Effect of biofertilizers and various levels of phosphorus on growth, yield and nodulation of blackgram (Vigna mungo) (Accepted)	Rohit Gautam, Richa Khanna, Krishan Pal, Virendra Singh, Abhay Saini And Mohit Gautam	Crop Research	2454-1761
83	Effect of SI with NPK Levels on Growth, Yield and Blast Disease of Aromatic Rice (Oryza sativa L.) in North-West Plain Zone of India	Satybhan Singh, A. N. Chaubey, Virendra Singh And Devdutt Gangwar	International Journal of Environment and Climate Change	2581-8627

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85	Studies on effect of insect pollinators on seed quality parameters of pigeonpea	Sk Yadav, Ram Veer, Virendra Singh, Himanshu Trivedi And Raj Kumar	The Pharma Innovation Journal	2277- 7695
86	Effect of Sowing Dates on Yield and Yield Components at Different Varieties of Wheat (Triticum aestivum L.) in western Uttar Pradesh	Y.P. Singh. Satybhan Singh, V.K. Dhangrah And Tripuresh Mishra	International Journal of Economic Plants	2349-4727
87	A Comparative Study of Biosynthesized Silver-Nanoparticles from Citrus maxima Peel, Pulp and Seed: A Special Retrospect for Antimicrobial Activity	Dr. Tanzeel Ahmad	Journal of Pharmaceutical Research International	2456-9119
88	Diagnosis of Genital Tuberculosis in infertile women by using the Composite Reference Standard	Kriti Shrinet	Disease Markers	1875-8630
89	GC-MS Profiling of Phytobioconstituents Present in Andrographis paniculata (Burm.f.) Nees Extract and Pharmacokinetic and Toxicity Properties by ADME/Tox Analysis	Kriti Shrinet	Asian Journal of Chemistry	2167-2172
90	Glutathione S-transferase gene polymorphism and asthma: a case-control study in a pediatric population.	Ankit Kumar, Tanzeel Ahmad, Mohd K. Parvez	Pharmacogenomics	1462-2416
91	Pesticides and Human Health: Antioxidants and Heat Shock Proteins as Modulators of Cell Survival Signal.	Dr. Tanzeel Ahmad	Journal of clinical and diagnostic research	0973-709X
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95	Factors Affecting The Working Women's Online Impulsive Buying Behaviour In Gorakhpur District Of Eastern Uttar Pradesh	Jyotsana Rai & Rakesh Kumar Yadav	Journal Of Positive School Psychology	2717-7564
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98	An Empirical Study of Factors Influenceing in Following the Procedure of Financial Reporting in India	Ms Sweta Dixit, Dr. Ashish Kumar Saxena	Bengal, Past & Present Journal of the Calcutta Historical Society	0005-8807
99	An Analytical Study On Non-Performing Assets In Private Sector Banks	Shaffali Agarwal, Dr. Swastika Tripathi	Dogo Rangsang Research Journal	2347-7180
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105	An Assessment of Time Management Strategies in Organization	Dr Himanshu Gupta, Dr Bhuwan Gupta	Journal of the Oriental Institute	0030-5324
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116	Economic Growth affected by Corruption: A Correlation Study for India	Prof. Nisha Agarwal, Dr. Nidhi Chaudhary	Shodha Prabha	0974-8946
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138	Detection And Classification Of Brain Tumor Using Ksvm	Ravendra Singh, Bharat Bhushan Agarwal	Design Engineering	0011-9342
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140	A Study Based on Plant Disease Prediction System Using Machine Leaning	Arvind Kumar Shukla, Rajdeep Singh	Turkish Online Journal of Qualitative Inquiry	3147-3155
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155	Fuzzy Based Search In Motion Estimation For Real Time Video Compression	Upendra Srivastav , Rakesh Kumar Yadav	International Journal Of Advanced Computer Science And Applications	2158-107X
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157	A Complete Review on Wind Energy	Dr. Anil Kumar	International Journal of Scientific Development and Research	2455-2631
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159	A Novel Approach Using TCSR FACTS Controller for Mitigation of Congestion in a Multi-machine Power System	Madhvi Gupta, Ashwani Kumar Gupta And Nikhlesh Kumar Sharma	Journal of Electrical Engineering & Technology	1975-0102
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161	A Merhodical Analysis of Nanotechnology in Renewable Power Generation	Mr. Munendra Kumar	International Journal of Research & Analytical Reviews	2348-1269

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174	Role of Electronic Evidence in Criminal Justice Delivery System	Mr. Jitendra Kr. Gautam & Dr. Yogendra Singh	Shodhsamhita	2277-7067
175	Relevance of The United Nation in The Contemporary World	Mr. Sani Kumar & Ms. Aakansha Gupta	International Journal of Noval Research and Development	2456-4184
176	Prison Administration in context with Prisoner's rights in India	Shikha Mishra & Uday Veer Singh	International Journal Of Multidisciplinary Research And Analysis	2643-9840
177	Hindu Marriage Rituals and Ceremonies under the Shadow of Directives For Social Distancing During Covid 19: A Socio-Legal Overview	Hina Gupta & Dr. Yogendra Singh	International Journal Of Law & Jurisprudence (I.J.L.J) Consultant	2395-6402
178	Indian Secularism: A Unique Concept of Religious Diversity or A Catalyst to Inequality	Dr. Shilpi Gupta	Shodh-Rityu An International Multi-disciplinary Research Journal (Peer Reviewed & Refereed Journal)	2454-6283
179	Copyright Law & Copyrightable Work in Cyber Space: Issues & Challenges in Present Legislative Policy in India	Dr. Yogendra Singh, Dr. Shilpi Gupta & Mr. Dinesh Singh Sagar	International Journal of Noval Research and Development	2456-4184
180	Socio Legal Effect Of Covid-19 On Health Insurance	Mr. Anuprash Rajat, Mr. Gaurav Bharti	Shodh-Rityu An International Multi-disciplinary Research Journal (Peer Reviewed & Refereed Journal)	2454-6283

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S.No.	Title of paper	Name of the author/s	Name of journal	ISSN Number
181	Human Rights & Indian Constitution: A Critical Analysis	Mr. Upendra Grewal, Mr. Vivekanand	Shodh-Rityu An International Multi-disciplinary Research Journal (Peer Reviewed & Refereed Journal)	2454-6283
182	Transgender Community: Historical Development and Present Scenario in India	Sani Kumar & Dr Udayveer Singh,	Indian Journal of Law and Legal Research	2582-8878
183	Acoustical Parameters of Polyvinyl Alcohol	Dr. Richa Saxena	Journal of Mountain Research	0974-3030
184	Density, Viscosity and Ultrasonic Velocity of Polyethylene Glycol	Dr. Richa Saxena	Journal of Mountain Research	0974-3030
185	Protective Role Of A-Mercapto-B-Acrylic Acid Substituted Derivatives On Oxidative Stress, Lipid Peroxidation, Antioxidant Enzymatic Activities In Cadmium Toxicity Induced Rat Model	Dr. Sarika Arora	International Journal of Advanced Research	2320-5407
186	Microbiologically influenced corrosion of wastewater pipeline and its mitigation by phytochemicals: Mechanistic evaluation based on spectroscopic, microscopic and theoretical analyses	Dr. Ajay Chohan	Journal of Molecular Liquids	0167-7322
187	Decontamination of cationic dye brilliant green from the aqueous media	Dr. Himanshu Gupta, Santosh Singh, Soniya Dhiman, Nawal Kishore Shahu	Applied Water Science	2190-5495
188	Mathematical modeling and investigation of sensitivity of a multifaceted system	Dr. Nidhi Tiwari	Telematique	1856-4194
189	Detection and discrimination of water (H_2O) and heavy water (D_2O) by an off-the-shelf fluorescent probe	Dr. Pawan Kumar, Srashti Gadiyaram, Ajeet Singh, D. Amilan Jose	Microchemical Journal	0026-265X

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S.No.	Title of paper	Name of the author/s	Name of journal	ISSN Number
190	New Mercaptoacetamide Derivatives: Synthesis and Assessment as Antimicrobial and Antimycobacterial Agents	Dr. Priyanka Rani, Dilip Kumar Pal, Rahul Rama Hegde, Sayed Riaz Hashim	Pharmaceutical chemistry journal	1573-9031
191	Onset of Multi-diffusive Convection in a Rotating Dusty Porous Layer: A Brinkman Model;	Dr. Rajan Singh, Dr. B.K.Singh	International journal of innovative research in technology	2349-6002
192	A Comprehensive Review: RecentProgress on Magnetic High Entropy Alloys and Oxides	Dr. Rajesh Mishra	Journal of Magnetism and Magnetic Materials	0304-8853
193	Alteration glucose level in Xenentodon cancila & Labeo bata induced by polluted water at acute and chronic exposures	Dr. Sushant Kumar Srivastava	INTERNATIONAL RESEARCH JOURNAL OF SCIENCE ENGINEERING AND TECHNOLOGY	2454-3195
194	Logic of Meyons: A Fuzzy Logic Based Approach	H.N. Singh, Riddhi Garg, Nitesh Dhiman, M.K.Sharma	Neuroquantology	1303-5150
195	Employee Retention and Attrition Analysis: A Novel Approach on Attrition Prediction Using Fuzzy Inference and Ensemble Machine Learnig	M.K. Sharma, Dhanpal Singh, Manaswita Tyagi, Ayushi Saini, Nitesh Dhiman, Riddhi Garg	Webology	1735-188X
196	An Enhanced Optimized Probability Distribution Approach for Transportation Problem using Artificial Neural Network	Mr. Amit Bhatnagar, Dr Arvind Kumar Shukla	Indian Journal of Natural Sciences	0976-0997
197	Impact of Vegan Eatable along with ascorbic acid supplements of anaemic girls	Nishika Johari and Dr. Trapti Pandey	International Journal Of Multidisciplinary Educational Research	2277-7881
198	Studies of low temperature electrical measurements in some multicomponent selenium rich glassy alloys: Role of silver modifier	Prof. S.D. Sharma, Ankita Srivastava, Somnath Roy, Neeraj Mehta, A. Dahsan	Journal of Non-crystalline Solids	0022-3093
199	Study of some thermo-mechanical parameters in Se_{70} $Te_{30}M_x$ (x = 0; M = Cd, Ag, and Zn) alloys	Prof. S.D. Sharma, Neeraj Mehta, A. Dahsan	Chinese Journal of Physics	0577-9073

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S.No.	Title of paper	Name of the author/s	Name of journal	ISSN Number
200	Relevance of Game Theory Models in Medical Consultation: Special Reference to Decision Making	Prof.(Dr.) B.K.Singh, Swati Saxena, Shubham Agarwal	International Journal of Research in Engineering, Science and Management (IJRESM)	2581-5792
201	Review of Wavelet Transform and its Application in Different Compression Technique	Dr. Richa Saxena	Computational Physics	2229-712X
202	नारी की स्थिति एवं समस्या	Dr Alka Sharma	Ithihaas Dristhi	0976-349X
203	साइबर अपराध का समाज पर प्रभाव	Dr Alka Sharma	Unmilan	0974-0053
204	An Analytical Study of Flipped Learning Approach	Dr Mohan Lal Arya	strad Research	0039-2049
205	An Analytical Study of Pricipals Academic Role and His Professional Development	Dr Mohan Lal Arya	Nagphani	2321-1504
206	Teacher Effectiveness in relation to their Emotional Intelligence and Job Satisfaction	Dr Mohan Lal Arya	Nagphani	2321-1504
207	कृषि भूगोल में नवाचार ओं की भूमिका एक भौगोलिक विश्लेषण	Dr Mohan Lal Arya	GIS Science Journal	1869-9391
208	बी.एड एवं बी.टी.सी प्रशिक्षणार्थियों की शिक्षण अभ्यास के प्रति अभिव्यक्ति का तुलनात्मक अध्ययन	Dr Mohan Lal Arya	Juni Khayat	2278-4632
209	विद्यालय विद्यार्थियों को मिलने वाले पुरस्कार एवं दंड के प्रभाव का अध्ययन	Dr Mohan Lal Arya And Miss Nikita Bindal	Nagphani	2321-1504

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S.No.	Title of paper	Name of the author/s	Name of journal	ISSN Number
210	A Comparative Study of The Mistress of Spices by Chitra Banerjee Divakaruni and Cinematic adpatation of Fictional Work by Paul Mayedaberges and Gurindar Chadha	Dr Monika Jaiswal	Dogo Rangsang Research Journal	2347-7180
211	An Ecological Cogitation of Kalidas Abhigyan Shakuntalam	Dr Monika Jaiswal	DogoRangsang	2347-7180
212	Quest for Self in Kamala Markandaya's Nectar in a Sieve and Shashi Deshpandey That Long Silence	Dr Monika Jaiswal	DogoRangsang	2347-7180
213	Women Liberation and Verbalism in Mahesh Dattani's Tara and Seven Steps Around the Fire	Dr Monika Jaiswal	Juni Khayat	2278-4632
214	माध्यमिक स्तर के विद्यालय में अध्ययनरत बालिकाओं की मानव अधिकार के प्रति जागरूकता का अध्ययन	Dr Pradeep Kumar Tiwari And Somesh Sharma	Shiksha Shodh Manthan	2581-6241
215	ऊधमसिंह नगर के माध्यमिक विद्यालय में पढ़ने वाली विभिन्न कक्षा की बालिकाओं के चिकित्सा अधिकारों के प्रति जागरूकता का अध्ययन	Dr Pradeep kumar Tiwari, Somesh Sharma	Shodh Prabha	0974-8946
216	ऊधमसिंह नगर के माध्यमिक विद्यालय में पढ़ने वाली विभिन्न कक्षा की बालिकाओं के चिकित्सा अधिकारों के प्रति जागरूकता का तुलनात्मक अध्ययन	Dr Pradeep kumar Tiwari, Somesh Sharma	Shodh Prabha	0974-8946
217	A Ecological Study and Critical Approach in Amitav Ghosh The Hungry Tide	Dr Sarika Dubey	Juni Khayat	2278-4632
218	Girish Kanda's Tughlaq: The Dark Recesses of Human Mind	Dr Sarika Dubey	International Journal of Creative Research Thoughts	2320-2882

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S.No.	Title of paper	Name of the author/s	Name of journal	ISSN Number
219	Cultural Clashes in the Novels of Bharti Mukherjee	Dr Shivali Singh	Juni Khayat	2278-4632
220	Morality in the Novels of Shashi Deshpandey	Dr Shivali Singh	Research Journal of English Language and Literature	2321-3108
221	A Study of The Impact Aptitude Of Teaching and Effectiveness of Teachers on Mental Health And Life Skills of Students	Manju Lata Sharma and Dr Pradeep Kumar Tiwari	The Journal of Oriential Research Madras	0022-3301
222	मुरादाबाद जनपद में हिंदी माध्यम अंग्रेजी माध्यम के उत्तर माध्यमिक माध्यमिक विद्यालय में अध्ययनरत विद्यार्थियों की व्यवस्था एक रुचि का तुलनात्मक अध्ययन	Neeru Chaudhary And Dr Pradeep Kumar Tiwari	Journal of Emerging Technologies And Innovative Research	2349-1562
223	A Review of Critical Study of Effectiveness of Programmed Instruction and Computer Assisted Instruction For Mathematical Disability of Secondary School Students	Neha Sharma	GIS Science Journal	1869-9391
224	Analytical Study of Peace Educationin India	Neha Sharma	Journal of Intedisciplinary Cycle Research	0022-1945
225	Impact of Self Help Group In Socio Economic Development of India	Pooja Gupta	Juni Khayat	2278-4632
226	प्राचीन भारत में शिक्षा व्यवस्था	Rashmi Yadav And Dr Mohan Lal Arya	Nagphani	2321-1504
227	A Study of Home Environment And Emotional Intelligence Of Senior Secondary School Students	Charu Sharma And Dr Mohan Lal "Arya"	Journal of Intedisciplinary Cycle Research	0022-1945

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S.No.	Title of paper	Name of the author/s	Name of journal	ISSN Number
228	Home Environment and Emotional Intelligencfe of Senior Secondary School Students	Charu Sharma And Dr Mohan Lal Arya	Third Concept	0970-7247
229	A Pursuit of Identity Liberation and Spirit of Resisitance in Maxim Gorky's Mother	Dr Monika Jaiswal	Journal of Intedisciplinary Cycle Research	0022-1945
230	A Study of the Awareness Among Primary School Teachers About the Right to Education Act 2009	Dr Mohan Lal Arya And Dr Rajkumari Gola	Journal of Intedisciplinary Cycle Research	0022-1945
231	भारतीय संस्कृति और मानवीय मूल्य	Dr Mohan Lal Arya Rashmi Yadav And Luxmi Mishra	Juni Khayat	2278-4632
232	वित्त पोषित एवं स्व वित्त पोषित महाविद्यालयों के शिक्षकों एवं शिक्षक व कर्मचारियों की मानसिक स्वास्थ्य एवं व्यवसायिक तनाव का अध्ययन	Dr Mohan Lal Arya And Archana Singh	Nagphani	2321-1504
233	Artifical Intelligence (AI) And its Role and Teacher Education	Dr Mohan Lal Arya And Nikita Yadav	GIS Science Journal	1869-9391
234	प्राथमिक तथा माध्यमिक शिक्षण संस्थान के विद्यार्थी का पर्यावरण संबंध ज्ञान तथा उसके प्रभाव का अध्ययन	Dr Mohan Lal Arya and Parina Bansal	Nagfani	2321-1504
235	उच्च मध्यम और निम्न सामाजिक आर्थिक वर्ग वाले विद्यार्थियों में व्यवसायिक वृत्ति की प्राथमिकता एक शैक्षिक अध्ययन	Dr Mohan Lal Arya And Rajkumari Gola	Journal of Intedisciplinary Cycle Research	0022-1945
236	Role of Self Efficacy Stress reduction in Adolescent: A Study in Refrence to Farrukhabad District(U.P)	Dr Mohan Lal Arya And Shika Dixit	GIS Science Journal	1869-9391
237	Stress as Predictor of Depression in Adolescent: A Study in Refrence to Farrukhabad District(U.P)	Dr Mohan Lal Arya And Shikha Dixit	Nagphani	2321-1504

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S.No.	Title of paper	Name of the author/s	Name of journal	ISSN Number
238	Feminine Consciouness int the Shorter Fiction of Rabindra Nath Tagore	Dr Monika Jaiswal	Journal of Emerging Technologies And Innovative Research	2349-1562
239	Ghashiram Kotwal: A Tradegy Of Power and Pelf	Dr Monika Jaiswal And Manjeeta Gahlout	Juni Khayat	2278-4632
240	Issues and Challenges of Higher Education in Indian Perspective	Dr Rajkumari gola	Nagphani	2321-1504
241	विद्यालय वातावरण एवं सामाजिक आर्थिक स्तर का विद्यार्थियों की शैक्षिक उपलब्धि पर प्रभाव	Dr Rajkumari Singh And Shikha Upadhya	Juni Khayat	2278-4632
242	Dharmvir Bhartis Play Andha Yug A Delination of Satyameva Jayate	Manjeeta Gahlout	Dogo Rangsang Research Journal	2347-7180
243	विशिष्ट बालकों के लिए समावेशी शिक्षा एक शैक्षिक अध्ययन	Mrs Parina Bansal, Mohan Lal Arya	Shiksha Shodh Manthan	2581-6241
244	Role of Human Resource Mangement in Education	Ms Neha Sharma	Quest Journals	2321-9467
245	Smart phone Usage Among University Students: A Critical Analysis From Educatonal Perspective	Ms Nikita Yadav	International Journal of Current Science	2250-1770
246	Citizen Journalism	Pulkit Sharma, Dr Rajesh Kumar Shukla	Nagphani	2321-1504
247	An Analytical Study of Emotional Intelligence of Primary School Teachers	Richa Agarwal And Dr Mohan Lal Arya	Journal of Intedisciplinary Cycle Research	0022-1945

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S.No.	Title of paper	Name of the author/s	Name of journal	ISSN Number
248	A Comparative Study of Motivation Among the Learners of Indira Gandhi National Open University and Odisha State Open University	Venkateswar Meher	The online Journal of Distance Education and e Learning	2147-6454

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Annexure 7(b)

List of Patents Published

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PATENTS

(2023-24, 2022-23 & 2021-22)

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4	Patents (2021-22)	21-46

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Summary Sheet of Patents Published/Granted in Last 3 Years

(2023-24, 2022-23 & 2021-22)

Name of School	2023-24	2022-23	2021-22	Total
Faculty of Pharmacy	80	35	108	223
School of Agricultural Science & Engineering	15	1	5	21
School of Biotechnology	1	1	1	3
School of Business Management	6	11	12	29
School of Computer Science & Applications	6	6	48	60
School of Education & Humanities	1	1	-	2
School of Engineering & Technology	1	7	46	54
School of Sciences	11	9	4	24
TOTAL	**121**	**71**	**224**	**416**

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List of Patents Published/Granted

Session: 2023-24

S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
1	Varsha Tiwari, Abhishek Tiwari	541358	A Method of Elucidation of Possible Mechanism of Antidiabetic Potential of Zn Loaded Bhyophyllum	Granted
2	Abhishek Tiwari	535944	Systematic development of transethomal Gel System of Berberine-Hydrochloride for Effective Treatment of Dermatophytosis Against Trichophytonrubrum: Ex-Vivo, IN-Vitro anf In-Vivo Assessment	Granted
3	Vaibhav Trivedi, Mohammad Javed, Prashant Kumar, Ayush Saxena, Vineet Singh	382831-001	Design and Fabrication of Low Cost Golf Cart	Granted
4	Jai Bharti, Abhishek Tiwari	547063	A Composition of Tetrahydrocurcumin Loaded Solid Lipid Nanoparticles	Granted
5	Dr. Jitendra Pal Singh	401873-001	Device for Fabrication and Spectral Characterization of Amorphous Materials	Granted
6	Dr. Jitendra Pal Singh	401693-001	Nanomaterial Characterization and Analysis Device	Granted
7	Abhishek Tiwari, Varsha Tiwari,	440384	Synthesis Characterization and Evaluation of Integerrimide-A As Potential Antimicrobial and Anticancer Agent	Granted
8	Abhishek Tiwari, Varsha Tiwari, Navneet Verma,	442014	Development and Evaluation of Voriconazole Loaded Nanostructured Lipid Carrier Based In-Situ Gel Ocular Drug Delivery	Granted
9	Abhishek Tiwari, Varsha Tiwari Et. Al.	449660	Development and Evaluation of Prednisolone Acetate ContAlning Polymeric Micelles Loaded In Situ Gel for the Treatment of Ocular Inflammation	Granted
10	Abhishek Tiwari, Varsha Tiwari	458286	A formulation of Hesperidin ContAlning Solid Lipid Nanoparticles Through Oral Route and Methods thereof	Granted

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
11	Abhishek Tiwari,Gayatri Joshi, Varsha Tiwari , Navneet Verma , Prashant Upadhyay, Sukirti Upadhyay,	538726	formulation Characterization and Evaluation of andrographis Paniculata Herbosomes for Improved Permeability	Granted
12	Abhishek Tiwari, Varsha Tiwari	483806	RP-HPLC Method Development and Validation of An Anti-Alzeimer Drug: Rivastigmine Tartrate	Granted
13	Abhishek Tiwari, Varsha Tiwari	433528	Norfloxacin Reverse Gelatinization Gel: Development Characterization and Evaluation	Granted
14	Varsha Tiwari, Abhishek Tiwari	419081	Formulation Development and Evaluation of Poly-Herbal Nano-Emulgel for topical Drug Delivery	Granted
15	Varsha Tiwari, Abhishek Tiwari	422004	Development and Evaluation of Acelofenac Loaded Solid Lipid Microparicles Based topical Gel formulation	Granted
16	Varsha Tiwari, Abhishek Tiwari, Navneet Verma	466537	A Method of Docking of Phytoconstituents As therapeutic Leads AgAInst Sars Cov-2	Granted
17	Amit Kumar, Abhishek Tiwari, Varsha Tiwari, Navneet Varma	506381	A Method of Possible Computational Insight and A Novel Atomic-Level Viewpoint On the Egfr Inhibition of Epicathechin Gallate In Lung Cancer Activity	Granted
18	Varsha Tiwari, Abhishek Tiwari	538942	Revolutionizing therapeutic Delivery: Nitogenin Loaded Solid Lipid Nanoparticles	Granted
19	Gayatri Joshi, Abhishek Tiwar, Varsha Tiwari	544804	Andrographolide and Piperine Loaded Herbosomol formulation of Enhancement of Hepatoprotective and Antioxidant Activity	Granted
20	Dr. Prashant Upadhyay	202023100166	Neuroprotective Effect of Curcumin AgAInst Hippocampal Neurodegeneration	Granted
21	Dr Sukirti Upadhyay	202023100176	Polyherbal formulation As Antihypertensive and Cardiovascular	Granted

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
22	Dr. Prashant Upadhyay	202023100621	A System for Producing Extracts from Ipomoea Pes- Caprae	Granted
23	Dr. Prashant Upadhyay	202024100936	Composition of Solid Lipid Nanoparticles of Glicazide for Antidiabetic Treatment	Granted
24	Dr Sukirti Upadhyay	20 2024 102017	Nanoparticle Composition for Improved Paclitaxel Delivery In Cancer Treatment	Granted
25	Dr Sukirti Upadhyay	2023/00120	A Composition and Method for Preparing and Analyzing Petroleum Ether Extract of Glycyrrhiza Glabra	Granted
26	Dr. Prashant Upadhyay	2023/00121	A Composition and Method to Develop and Analyze Micro Sponges	Granted
27	Arun Mishra	2022/13460	Herbal Composition with Anti-Amnesia and Cerebroprotective Potentials.	Granted
28	Dr. Bharat Bhushan Agarwal	202311021565 A	The Role of IOT, Wireless Sensor Networks (Wsn) and Wifi In Smart Medical Applications	Published
29	Dr. Bharat Bhushan Agarwal	202311053271	IOT Based Automation for the Purpose of Monitoring Temperature and Vibration In Proccesses and Preventing Accidents	Published
30	Dr Rahul Kumar Mishra	202411005503 A	Machine Learning Framework for Proactive Cybersecurity Threat Detection	Published
31	Dr Rahul Kumar Mishra	202311053270 A	IOT and Machine Learning -Based Monitoring Systems for Weather, Soil, Earthquakes, and Air Pollution	Published
32	Dr Arvind Kumar Shukla	202311078501 A	Knowledge Dissemination Gaps In AI Powered Psychological and Educational Assessment An Decision Making Guidelines	Published

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
33	Richa Saxena, Apoorv Rastogi, Tahira Sultan, Neha Rahi, Vidhan Chand Vala, Srishty Goyal, Geeta Biswas, Kajal Devi, Himanshu Gangwar, Amit Kumar, Dr.Sushil Kumar	202411054246A	Pharmacognostical and Pharmacological Evaluation of Leaf of Tacoma Capensis	Published
34	Dr. Megha Bhatia, Dr. Arkja Singh, Dr. Swati Rai	202311035568 A	Designing to Improve Mental Health In the Workplace Thru Implementing Hrm & AI/Ml Methods	Published
35	Dr. Charu Dutta	202421001149 A	Logistic Supply ChAIn Management: A Catalyst for Shaping India'S Economic Growth	Published
36	Dr. Narender Singh, Ms. Swati Gupta , Dr. Ajeet Singh, Dr. Manish Kumar, Dr. B.K Singh, Dr. Sarika Arora, Dr. Tarun Kanti Sarkar	202411025018A	An Analysis of Organic Solar Cell At Different Active Layer Thickness and Charge Carriers Mobility	Published
37	Dr. Narender Singh, Ms. Swati Gupta , Dr.Tarun Kanti Sarkar	202311047761A	Synthesis, Characterization, and Cadmium toxicity Reduction of Aryl Acrylic Acid Substituted Derivatives In Biological Samples	Published
38	Dr. Narender Singh, Ms. Swati Gupta , Dr.Sarika Arora	202311058693A	Analysis of Polyvinyl Alcohol Properties: Density, Viscosity, and Ultrasonic Velocity At Varied Temperatures and Concentrations	Published
39	Dr. Jitendra Pal Singh	202311060472A	Synthesis and Characterization of Rare Earth Ions Doped Zinc Oxide Nanomaterials for Advanced Applications	Published
40	Dr.Sarika Arora	202311047806 A	Study of Structural, Morphological, Optical and Frequency Dependent Electrical Properties of Iron (Iii) Oxide Nanopowder	Published
41	Dr. Narender Singh, Dr. Jitendra Pal Singh, Ms. Swati Gupta	202311001131A	Analysis of thermal Properties of Organic Solar Cell At Different Device Temperatures	Published

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
42	Dr. Narender Singh, Dr. Jitendra Pal Singh, Ms. Swati Gupta	202311009975A	Acoustical Parameters of Aqueous Solution of Polyvinyl Alcohol	Published
43	Dr. Narender Singh, Dr. Jitendra Pal Singh, Ms. Swati Gupta	202311020428A	Structural, Morphology and Optical Properties of Cds: Nd3+ Nanoparticles By Simple Chemical Precipitation Method	Published
44	Dr. Narender Singh	202311035987A	thermomagnetic Convection Permeated with Suspended Dust Particles Through A Darcy-Brinkman Porous Medium	Published
45	Tribhuwan Kumar Vashishtha, Rajat Saxena, Dr. Navneet Verma	202311079477 A	Effects of Clitorea Ternatea Linn. AgAInst Streptozotocin Induced In Rats	Published
46	Dr Navneet Verma	202311087061 A	Enhancing Solubility of Carvedilol Through Liquisolid	Published
47	Abhishek Tiwari, Varsha Tiwari	202411001151 A	Computational and Experimental Insight Into Glycyrrhizin	Published
48	Dr. Abhishek Tiwari, Dr. Varsha Tiwari	202411012361 A	Ultrasound Assisted Extraction of Rhus Mysorensis Via Integration Factorial Design	Published
49	Dr. Abhishek Tiwari	202411012362 A	A Sitosterol Loaded Solid Lipid Nanoparticles for Enhanced and SustAIned Drug Release In Diabetes	Published
50	Tribhuwan Kumar Vashishtha, Rajat Saxena, Dr. Navneet Verma	202311079477A	Effects of Clitorea Ternatea Linn. AgAInst Streptozotocin Induced Diabetes In Rats	Published
51	Dr. Mhaveer Singh	202311025377 A	In Vitro Bacteriacidal Effects of Centellaasiatica and Azadirachta Indica AgAInst Goat-Isolated Pasteurella Multocida	Published
52	Ms. Pooja Saini, Prof. Sushil Kumar	202311053022 A	Computational Studies and Synthesis of New Heterocyclics As Cns Agent	Published
53	Ms. Pooja Saini, Prof. Sushil Kumar	202311053023 A	Designing Molecular Docking and Biological Evaluation of Phenothiazine Derivatives As Inhibitors of Anxiety	Published

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
54	Ms. Pooja Saini, Prof. Sushil Kumar	202311053024 A	Synthesis Characterzation Molecular Docking and Anti Anxiety Evaluation of Some Novel Phenothiazine Derivatives	Published
55	Dr. Mhaveer Singh, Mr.Anesh Sagar	202311074781 A	Development of Herbal Anti-Obesity Tablet formulation	Published
56	Dr. Harpreet Singh	202411034445 A	A New Model for Detecting Depression from Organization By Using Multiple Machine Learning and AI Techniques	Published
57	Harpreet Singh	202411047880 A	Analysis and Uses of Dxa Bone Density Scans In the Diagnosis and Treatment of Osteoporosis	Published
58	Ms. Tahira Sultan, Mr. Vidhan Chand Bala, Mrs. Richa Saxena, Ms. Srishti Goyal, Dr. Sushil Kumar, Ms. Sakshi Singh, Mr. Amit Kumar, Ms. Sneha Rawat, Apoorv Rastogi	202411049728A	Evaluation of the Possible Mechanism of Action of Prunus Persica for Nootropic Activity	Published
59	Harpreet Singh	20 2023105791	Herbal Transdermal Patch	German
60	Dr Arvind Kumar Shukla	405868-100	Sanskrit to English Translation Device	Design Grant
61	Tribhuwan Kumar Vashishtha	6323279	Artificial Intelligence Based Device for Prediction of Diabetes	Design
62	Dr Navneet Verma	63326094	AI Based Lung Cancer Testing	Design
63	Dr. Shweta Verma, Dr. Navneet Verma, Dr. Munesh Mani	402522-001	Smart Plant Health Monitoring Device	Design
64	Dr. Vijay Sharma, Dr. Sushil Kumar	202311000912 A	formulation Development and Optimization of Oral Dispersible Tablet of Antihypertensive Drug	Design

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
65	Dr. Shahbaz Khan	391120-001	Device for Early Detection of Diabetic Neuropathy topically	Design
66	Dr. Pawan Singh	391761-001	Hand Operated Portable Tablet Punching Machine	Design
67	Dr. Pawan Singh	392316-001	Portable Apparatus for Spray Drying of Tablets	Design
68	Dr. Munesh Mani	393247-001	Device for Detection of Active Constituents from Medicinal Plants	Design
69	Dr. Munesh Mani,Mr. Tribhuwan Kumar Vashishtha	393739-001	Microwave Extractor	Design
70	Dr. Prevesh Kumar, Ms Diksha	396250-001	Mouth Cancer Detection Equipment	Design
71	Dr Navneet Verma, Tribhuwan Kumar Vashishtha, Dr Sahhbaz Khan	402790-001	IOT Based Dissolution Apparatus	Design
72	Dr. Vijay Sharma, Dr. Navneet Verma, Mr. Saurabh Singh, Mr. Maneesh Kumar Singh, Mr. Arvind Raghav, Ms. Mitali Singh, Ms. Pooja Singh, Mr. Ritesh Kumar Tiwari, Dr. Shashi Verma, Mr. Alankar Shrivastav	404097-001	Hand Operated Portable Tablet Punching Machine	Design
73	Abhishek Tiwari, Varsha Tiwari	410386-001	Water Bath	Design
74	Abhishek Tiwari, Varsha Tiwari	410387-001	UV-Visible Spectrophotometer	Design
75	Abhishek Tiwari, Varsha Tiwari	410389-001	Light Microscope	Design

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
76	Varsha Tiwari, Abhishek Tiwari	410390-001	Vacuum Pump	Design
77	Abhishek Tiwari, Varsha Tiwari	410391-001	UV Chamber	Design
78	Varsha Tiwari, Abhishek Tiwari	410392-001	Vacuum Oven	Design
79	Varsha Tiwari, Abhishek Tiwari	410394-001	Heating Mantle	Design
80	Varsha Tiwari, Abhishek Tiwari, Navneet Verma	410395-001	Microwave	Design
81	Varsha Tiwari, Abhishek Tiwari	410396-001	Single Pan Balance	Design
82	Dr. Vijay Sharma, Dr. Navneet Verma,Monika Singh, Swati Gautam,Sheetal Negi	414641-001	Smart Transdermal Patch for Monitoring of Type 2 Diabetes	Design
83	Dr. Mohit, Dr. Vipin Kumar Garg, Dr. Raghvendra, Dr. Amber Vyas, Dr. Manish Kumar Mishra, Dr. Rajesh Yadav, Mr. Atul Kumar Thakran, Ms. Rupali Sharma, Ms. Neha Tamta, Mr. Alankar Shrivastav	388224-001	Chemical Spill Suction Pump	Design
84	Mitali Singh, Runjhun Pallavi, Sippy Singh, Dr. Durgesh Singh	412477-001	Device for Detection of Neurological Disorders	Design
85	Heena Farooqui	6296733	Ampoule Sealing and Filling Apparatus	Design
86	Dr Sukirti Upadhyay	6322833	Gel Based Injection Device for Treatment of Arthritis	Design
87	Dr Asheesh Kumar Gupta, Dr Kshitij Agarwal, Ruchika Garg	370245-001	Microwave Extractor	Design

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
88	Dr Sukirti Upadhyay	375522-001	X Ray Diffraction Apparatus for Determining Crystal Structure of Organic Compounds	Design
89	Dr. Prashant Upadhyay	375980-001	Microreactor for Nanoparticles Synthesis	Design
90	Dr. Prashant Upadhyay	379267-001	Steam Inhaler	Design
91	Heena Farooqui	384329-001	Device for Detection of Melanoma Skin Cancer	Design
92	Dr. Vijay Agarwal, Mr. Surya Goel, Dr. Munendra Mohan Varshney, Ms. Ruchi Singh, Ms. Megha Tonk, Mr. Vidhan Chand Bala, Mr. Monu Kumar Kashyap, Mrs. Mahima	388102-001	Temperature Assisting Smart Probeultra Sonicator for Controlling the Particle Size	Design
93	Dr. Mhaveer Singh	393735-001	Laboratory Percolation Apparatus for Extraction of Herbal Drugs	Design
94	Dr. Prashant Upadhyay	398863-001	Bnebulizer for Targeted Drug Delivery	Design
95	Dr. Prashant Upadhyay	403791-001	Programmable Infusion Pump to Deliver Liposomal therapeutics	Design
96	Harpreet Singh	407109-001	Transdermal Foot Patch for Improving Sleep Quality	Design
97	Prashant Upadhyay	407658-001	X Ray Diffraction Apparatus for Determining Crystal Structure of Organic Compounds	Design
98	Harpreet Singh	409923-001	Portable Franz Dissusion Cell for Permeation Studies of Transdermal formulations	Design

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
99	Satybhan Singh, Vinod Kumar Dhangrah, Virendra Singh, Ramesh Pal And O.V.S. Thenua	406449-001	Solar-Powered Backpack Plant Sprayer	Design
100	Satybhan Singh, Virendra Singh, Ramesh Pal, Vinod Kumar Dhangrah, Aditya Narayan Chaubey, O.V.S. Thenua, Monu Kumar And Vyomendra Kumar Singh	409904-001	Lay Flat Tube Rolling Machine	Design
101	Satybhan Singh, Ramesh Pal, Virendra Singh, Budhesh Pratap Singh, Vinod Kumar Dhangrah, Himanshu Trivedi, Pankaj Kumar Singh And Subhash Babu	411445-001	Aonla Seed Extraction Device	Design
102	Satybhan Singh, Virendra Singh, Ramesh Pal, Ashish Kumar Saxena, Aditya Narayan Chaubey, Vinod Kumar Dhangrah And Uday Veer Singh	410870-001	BlockchAIn Controlled Device for Farmers Market	Design
103	Dr. Rajiv, Dr. Satybhan Singh, Mr. Pankaj Kumar Singh, Dr. Monu Kumar, Mr. Vyomendra Kumar Singh, Dr. Subhash Babu, Mr. Kamal Singh, Dr. Virendra Singh And Dr. Ramesh Pal	416947-001	Soil-Based Seed Injection Device	Design
104	Dr. Kamlesh Kumar Yadav, Dr. Sandeep Kumar Singh, Dr. Virendra Singh, Dr. Anuj Kumar, Dr. Anjali Tripathi	398415-001	Water Tds Level Checking Device	Design
105	Dr. Sulekha, Dr. Arun Kumar Rajbhar, Dr.Malay Marut Sharma, Dr. Kuldeep Maurya, Mr.Prakash Chandra, Dr.Kamlesh Kumar Yadav	398631-001	Leadership Quality Identifying Robotic Device	Design

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
106	Dr. Kamlesh Kumar Yadav, Dr. Sandeep Kumar Singh, Dr. Dilip Singh Kachwaya, Dr. Harish Chandra Raturi, Dr. Nidhika Thakur, Dr. Mahesh Kumar	405552-001	Fruit Ripeness Assessment Device	Design
107	Dr.Kamlesh Kumar Yadav, Dr. Sanjeev Rao, Dr. Ramesh Pal, Dr.Aditya Narayan Chaube, Dr.Geeta Devi, Dr. Sachin Kumar Yadav	398630-001	Smart Precision Irrigation Device	Design
108	Dr. Kamlesh Kumar Yadav, Dr. Satendra Kumar, Dr. Achin Kumar, Dr. Chandarbhan Patel, Dr. Shivam Singh, Dr.Santosh Kumar	405550-001	Soil Moisture Monitoring Device	Design
109	Dr. Kamlesh Kumar Yadav, Dr. Malay Marut Sharma, Dr. Saxena Raviprakash Narayan, Mr. Kamal Singh ,Mr. Lalu Prasad, Mr. Satyartham	405551-001	Autonomous Robotic Fruit Harvester	Design
110	Dr. Kamlesh Kumar Yadav, Dr. Ruchi Verma, Dr. Suresh Chandra, Dr. Pramod Kumar Singh	405402-001	Smart Precision Culinary Knife	Design
111	Dr. Vinod Kumar Dhangrah, Dr. Ramesh Pal, Dr. Virendra Singh, Dr. Satybhan Singh, Dr. Mahendra Pratap Singh And Mr. Kamal Singh	397490-001	Smart Spinach Leaf Harvester	Design
112	Dr. Ramesh Pal, Er. Ashutosh Mishra, Dr. Padam Singh, Dr. Swati Singh, Dr. Naveen Chandra Shahi, Dr. Pushpendra Kumar, Akshat Mishra, Sonali Negi, Devansh Bharadwaj	6333930	A Crop Production Device Utilizing Intelligance to Safeguard Crops from Wild Animals	Design

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
113	Dr. Nisha Agarwal, Dr. Himanshu Gupta, Dr. Aarti Garg, Ms. Shaffali Agarwal, Dr. Nidhi Chaudhary, Dr. Archana Katariya	395936-001	Attendance Management System Using Biometrics	Design
114	Dr. Nisha Agarwal, Dr. Himanshu Gupta, Mr. Akash Kumar Arya, Dr. Bhuwan Gupta, Dr. Richa Gupta, Mr. Shobhit Kumar	395937-001	Artificial Intelligence Based Face Recognition Access Control System	Design
115	Ms. Tanuja Sharma	378768-001	Kitchen Knife	Design
116	Dr. Ila Arora, Ms. Jyoti, Dr. Charu Dutta, Mr. Shobhit Kumar	406228-001	Automated Financial Management System for Small Business Owner	Design
117	Dr. Shivali Singh	6299403	A Graphical User Interface for Grammar and Spell-Check	Design
118	Dr Sulekha, Prakash Chandra, Arun Kumar Rajbhar, Jai Prakash, Deepak Kumar Verma, Pinaki Roy	411386-001	Farm Growth and Cleanliness Monitoring AI Device	Design
119	Dr. Kriti Shrinet	417724-001	Disposable Skin Microbes Swab Sampling Device	Design
120	Dr. Mhaveer Singh	1205992	Stability Indicating Analytical Method Development and Validation for New Antianginal Drugs In Bulk and Developed Dosage form By Rp-HPLC and HPTLC	Canadian Copyright
121	Sheetal Negi	1206385	Formulation and Characterization of Nanoparticles Encapsulated Flavonoids from Blueberry : Antioxidant activity Against Skin Cancer	Canadian Copyright

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List of Patents Published/Granted

Session: 2022-23

S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
1	Dr Prashant Upadhyay	2023/00121	A Composition and Method to Develop and Analyze Micro Sponges	Granted
2	Dr Sukirti Upadhyay	2023/00120	A Composition and Method for Preparing and Analyzing Petroleum Ether Extract of Glycyrrhiza Glabra	Granted
3	Dr Sukirti Upadhyay	202023100176	Polyherbal Formulation as Antihypertensive and Cardiovascular	Granted
4	Dr Prashant Upadhyay	202023100166	Neuroprotective Effect of Curcumin Against Hippocampal Neurodegeneration	Granted
5	Dr Prashant Upadhyay	202023100621	A System for Producing Extracts from Ipomoea Pes- Caprae	Granted
6	Dr Sukirti Upadhyay	375522-001	Smart Plant Health Monitoring Device	Granted
7	Dr Prashant Upadhyay	379267-001	Steam Inhaler	Granted
8	Dr Prashant Upadhyay	202022104687	A System for Developing a Self-Emulsifying Drug Delivery System	Granted
9	Dr Sukirti Upadhyay	202022104675	A system for botanical and physico- chemical standardization from Murraya koengii	Granted
10	Dr. Varsha Tiwari, Dr. Abhishek Tiwari	422004	Development and Evaluation of Aceclofenac-loaded Solid Lipid Microparicles Based Topical Gel Formulation	Granted
11	Dr. Abhishek Tiwari, Dr. Varsha Tiwari	433528	Norfloxacin Reverse Gelatinization Gel: Development, Characterization, and Evaluation	Granted
12	Dr. Abhishek Tiwari, Dr. Varsha Tiwari, Dr. Navneet Verma	403640	Development and Evaluation of Raloxifene Hydrochloride Microsponge Formulation for Topical Delivery	Granted

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
13	Dr. Mohit, Dr. Sushil Kumar, Dr. Navneet Verma	408663	Phenoxy Benzoyl Methane Derivatives as Antifungal Agents	Granted
14	Dr Prashant Upadhyay	375980-001	Microreactor For Nanoparticles Synthesis	Granted
15	Arun Kumar Mishra	20 2022 106 799	Treatment of multiple sclerosis through structural changes of the P2X4- receptor	Granted
16	Dr Varsha Tiwari, Dr Abhishek Tiwari	419081	Formulation development and evaluation of Poly-Herbal Nano-Emulgel for topical drug delivery	Granted
17	Dr Arun Kumar Mishra	202022104335	An innovative digital bioluminescence cage for analyzing the behaviour of rodents	Granted
18	Dr Arun Kumar Mishra	2022/13460	Polyherbal formulation for healing of wound	Granted
19	Ritu Nagila	202211069352 A	Deep Learning Based Technique Integrated With Time Series Data For Accurate Prediction Of Plant Growth And Yield	Published
20	Bharat Bhushan Agarwal	202311021565 A	The Role of IoT, Wireless Sensor Networks (WSN) And Wifi In Smart Medical Applications	Published
21	Dr Shivali Singh	202311002321 A	Technology Integration in ELT at Undergraduate Learners: A Socio Cultural Perspective	Published
22	Dr Satybhan Singh and Dr Virendra Singh	202311036719 A	Novel Method to Describe Agronomy	Published
23	Ila Arora, Sarika Arora, Amanpreet Kaur, Richa Saxena	202211047703 A	Economic Impact Of Air Pollution And Need For Environment Management In Gajraula City	Published
24	Richa Saxena, Dr. B. K. Singh Narender Singh, Swati Gupta, Kapil Pandey, Jitendra Pal Singh, Rajan Singh, Sarika Arora, Himanshu Gupta	202311009975 A	Acoustical Parameters Of Aqueous Solution Of Polyvinyl Alcohol	Published
25	Dr Sarika Arora, Mr. Nadeem Alam, Dr Ila Arora, Dr Rajan Singh, Ms.	202211073311 A	Molecular Modelling Of Antiviral Thiazolo-Oxadiazole Nucleoside Derivatives For Disease	Published

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
	Pallavi Deval, Ms. Asiya Ibraheem		Management Of Corn And Bean Virus	
26	Mr. Jitendra Pal Singh, Dr Richa Saxena, Dr Narender Singh, Ms. Swati Gupta, Dr Kapil Pandey, Dr Rajan Singh	202311020428 A	Structural, Morphology And Optical Properties Of Cds: Nd3+ Nanoparticles By Simple Chemical Precipitation Method	Published
27	Debika Chaudhuri, Dr. Atanu Nag, Dr. Shalu C.	202211049364 A	Design And Implementation Of Low Power Multipliers Using Power Efficient Adder Blocks	Published
28	Dr. Narender Singh, Dr. Richa Saxena, Ms. Swati Gupta, Dr. Kapil Pandey, Mr. Jitendra Pal Singh	202311001131 A	Analysis of Thermal Properties of Organic Solar Cell at Different Device Temperatures	Published
29	Dr. Megha Bhatia, Dr. Arkja Singh and Dr. Swati Rai	202311035568 A	Designing to Improve Mental Health in the Workplace thru Implementing HRM & AI/ML Methods	Published
30	Dr. Arkja Singh, Dr. Nisha Agarwal, Dr. Megha Bhatia, Dr. Swati Rai	202211049121 A	Artificial Intelligence- Based Human Resource Evaluation and Selection Decision Support System	Published
31	Dr. Rajan Singh, Dr. B. K. Singh, Dr. V. P. Pande, Dr. Sarika Arora, Dr. Richa Saxena, Dr. Nidhi Tiwari, Mr. Vipin Kumar, Mr. Deepak sharma	202211056083 A	Mathematical modelling to examine the pollutant levels in Ganga and Yamuna rivers	Published
32	Dr. Megha Bhatia, Dr. Arkja Singh and Dr. Swati Rai	202211047943 A	A System for Human Resource Management Modeling in Simulated Environment	Published
33	Dr. Richa Saxena, Dr. B.K. Singh, Dr. Rajan Singh, Dr. Sarika Arora	202211047054 A	Study of molecular interactions in polyvinyl chloride solutions	Published
34	Dr. Swati Rai, Dr. Arkja Singh, Dr. Nisha Agarwal, Dr. Megha Bhatia,	202211049250 A	Using Artificial Intelligence Comparing the Contentment of Human Resource in a Post Lay-off Setting	Published
35	Dr. Himanshu Gupta, Dr. Nisha Agarwal, Dr. Arti Garg, Dr. Akash Kumar Arya, Dr. Richa Gupta, Dr. Charu Dutta	202211049321 A	Artificial Intelligence and Supply Chain Management- Assessment of the Present and Future Role Played by AI in the Supply Chain Process	Published

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
36	Dr. Himanshu Gupta, Dr. Nisha Agarwal, Dr. Arti Garg, Dr. Akash Kumar Arya, Dr. Richa Gupta, Dr. Charu Dutta	202211049322 A	A Novel Approach for Transaction Management in Heterogenous Distributed Real-Time Replicated Database Systems	Published
37	IFTM University, Prof. Nisha Agarwal, Dr. Himanshu Gupta, Dr. Arti Garg, Dr. Akash Kumar Arya, Ms. Shaffali Agarwal, Dr. Richa Gupta	202211056746 A	Enhancing Talent Performane Management in Organizations by using BIG DATA	Published
38	Dr. Himanshu Gupta, Prof. Nisha Agarwal, Dr. Arti Garg, Mr. Vikas Sharma, Dr. Nidhi Chaudhary	202211047326 A	A Method For Analyzing The Effect Of Human Resource Management Practices On Employee Performance	Published
39	Dr. Himanshu Gupta, Mr. Akash Kumar Arya, Ms. Shaffali Agarwal, Mr. Nikhil Gupta, Mr. Vikas Sharma	202211047462 A	Study On Financial Impact Of Air Pollution And Needfor Environment Management Of Industrial Area	Published
40	Dr. Himanshu Gupta, Prof. Nisha Agarwal, Dr. Bhuvan Gupta, Mr. Nikhil Gupta, Ms. Jyoti Singh, Ms. Samdhya Sharma, Dr. Nidhi Chaudhary	202211049253 A	A Method For Approaching Study On Celebrity And Non-Celebrity Approve Advertisements	Published
41	Mr. Vikas Sharma	202211059652 A	Artificial Intelligence-Based Data Authentication for Cyber Security of Hotel's Property Management System using Deep Learning	Published
42	Mr. Prashant Kumar, Dr. Vaibhav Trivedi, Mr. Shashank Kumar, Mr. Kapil Gill, Mr. Prashant Sharma, Mr. Mayank Bhardwaj, Mr. Vivek Shankdhar, Mr. Mohd Javed, Mr. Ayush Saxena	202211047434 A	Surface Modification and Determination of Optimal Surface Texture for Medical Implants	Published
43	Mr. Arvind Chaudhary, Dr. Vaibhav Trivedi, Mr. Mayank Bhardwaj, Mr. Vivek Shankdhar, Mr. Ayush Saxena, Mrs. Bhawana Singh, Mr. Mohd Javed, Mr. Prashant Sharma, Mr. Shashank Kumar	202211047433 A	A system for Expermental Investigation by Reverse Engineering Tool For Recovering Design of Artifacts	Published

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44	Dr. Harpreet Singh, Dr. Arun Kumar Mishra, Dr. Arvind Kumar, Dr. Sushil Kumar, Dr. Navneet Verma	202211046231 A	TLC Fingerprint of Putranjiva Roxburghii Wall. Seed Extracts and Preparation Thereof	Published
45	Dr. Mhaveer Singh	202311025377 A	In vitro bactericidal effects of Centella asiatica and Azadirachta indica against goat-isolated pasteurella multocida	Published
46	Dr Vijay Sharma, Dr. Sushil Kumar	202311000912 A	Formulation Development and Optimization of Oral Dispersible Tablets of Antihypertensive Drug	Published
47	Dr. Sushil Kumar, Ms. Anupama Roy, Dr Arun Kumar Sharma	202211044966 A	Novel compound (E)-N-(2-(3,4-dihydroisoquinolin-2-(1H)-yl)benzylidene)-2,6-dimethylaniline and synthesis thereof	Published
48	Dr. Abhishek Tiwari, Dr. Varsha Tiwari	202311002779 A	Development and evaluation of Prednisolone acetate containing polymer loaded in-situ gel for the treatment of ocular inflammation	Published
49	Dr. Abhishek Tiwari, Dr. Varsha Tiwari	202211054900 A	Syhtematic Development of Trasethosomal Gel system of Berberine-hydrochloride for effective treatment of Dermatophytosis against Trichophytonrubrum: Ex-Vivo, In-Vitro and In-vivo assessment	Published
50	Dr. Varsha Tiwari, Dr. Abhishek Tiwari	202221054901 A	Antifertility and estrogenic effects of Sida Acuta Root on Experimental Animals	Published
51	Dr. Abhishek Tiwari, Dr. Varsha Tiwari, Dr. Navneet Verma	202211066813 A	Tansinone for the treatment of Utrine Fibroids: Molecular Docking, Simulation and Density Functional Theory Investigations	Published
52	Dr. Abhishek Tiwari, Dr. Varsha Tiwari	202311024999 A	Pharmacokinetic studies and optamization of Ginkgo Biloba Extract (Egb 761) loaded Intranasal solid lipid nanoparticles using QbD approach for Enhanced Brain Delivery	Published
53	Dr. Abhishek Tiwari, Dr. Varsha Tiwari	202311025000 A	Statistical Optamization of tetrahydrocurcumin loaded solid lipid nanoparticles using Box Behnken Design in the	Published

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
			management of Streptozotocin-induced diabetes mellitus	
54	Dr. Abhishek Tiwari, Dr. Varsha Tiwari	202211058685 A	Isolation and identification endophytic fungus from leaves of Nothapodytes nimmoniana and investigation of Camptothecin: an anticancer plant biomolecule	Published
55	Ms. Akhlesh Kumari, Dr. sushil Kumar	202211057992 A	Novel Compound 2-(2,3-diphenyl-1H-indol-1-yl) benzothiazole and Its Method of Synthesis	Published
56	Sunil Kumar Tiwari , Dr. Navneet Verma, Dr. Sushil Kumar, Dr. Vijay Sharma	202311018777 A	Formulation, Optimization and Evaluation of Controlled Released Beads	Published
57	Dr. Rahul Kumar Mishra	202311031916 A	Automation, Intelligent, and smart system using AI-Based Modeling: Methods, Application, and Research Issues	Published
58	Dr. Rajan Singh, Dr. B.K. Singh, Dr. Sarika Arora, Dr. Nidhi Tiwari, Mr. Vipin Kumar, Mr. Deepak Sharma, Dr. Richa Saxena, Dr. Narendra Singh, Dr. R.K. Tiwari	202311035987 A	Thermomagnetic Convection Permeated With Suspended Dust Particles Through A Darcy-Brinkman Porous Medium	Published
59	Dr Shahbaz Khan	202311013698 A	Hepatoprotective formulation against acetaminophen induced hepatotoxicity	Published
60	Dr Navneet Verma, Dr Abhishek Tiwari, Dr Varsha Tiwari, Ms Gayatri Joshi	202211047564 A	Formulation and Evaluation of tropicamide loaded niosomal In-Situ gel for occular drug delivery	Published
61	Dr Alka Lohani, Dr Sushil Kumar	202211045014 A	Herbal composition for inflammatory disorder	Published
62	Ms Ramdeep Kaur, Dr Navaneet Verma, Dr Sushil Kumar, Dr Munesh Mani, Ms Rita Yadav	202211047324 A	Preparation and evaluation of chitosan and various polymers for cros linked IPN multiparticultes of metformin	Published
63	Ms Kriti Srinet	202211045996 A	Novel composition reference standard for the diagnosis of genital tuberculosis in infertile women	Published

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
64	Mr Mahvir Singh Rawat, Mr Rajbahadur, Mr Neeraj Kumar, Dr Vaibhav Trivedi, Dr Neelu Trivedi	202211047820 A	Study of rheological behaviour of high performance concrete	Published
65	Mr Neeraj Kumar, Mr Rajbahadur, Mr Mahavir Singh Rawat, Dr Vaibhav Trivedi, Dr Neelu Trivedi	202211047817 A	Method to analyz the compressive strength of M-25 Grade concrete unsing fly ash	Published
66	Ms Madhavi Gupta, Dr Neelu Trivedi, Dr Puneet Khanna	202211047693 A	A method for the study of cordic algorithm	Published
67	Dr Neelu Trivedi, Shilpi Pal, Dr Puneet Khanna	202211047363 A	An analyzing method for outage performance of the clustering based multihop cooperative energy harvesting relay network	Published
68	Mr Rajbahadur, Mr Neeraj Kumar, Mr Mahavir Singh Rawat, Dr Vaibhav Trivedi, Dr Neelu Trivedi	202211047818 A	Vibration and buckling analysis of craed composite SLAB & BEAM	Published
69	Mr Ashish Nagila	202211052848 A	Classification models for early detection and prediction of cancer with improved efficiency	Published
70	Dr Bharat Bhusan Agarwal	202211047770 A	The implementation of artificial intelligence on the internet of things for the purpose of improving the efficiency of the medical service consultation system	Published
71	Mr Ankur Jain, Ms Bharti Jain, Dr Deepankar Bhardwaj, Mr Harpreet Singh Chawla, Dr Vaibhav Trivedi, Dr Neelu Trivedi, Mr Sanjeev Bhardwaj, Mr Ashish Nagila	202211047325 A	Deep learning approach for strengthen detection of coronavirus disease	Published

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List of Patents Published/Granted

Session: 2021-22

S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
1	Dr. Prashant Upadhyay	20 2022 104 687	A system for developing a self-emulsifying drug delivery system	Granted
2	Mr. Manish Ranjan Pandey, Mr. Rajdeep Singh	20 2022 101 023	System For Mapping Digital Field Images For Prediction of Seed Harvest Moisture Using Machine Learning Models	Granted
3	Dr. Arvind Kumar Shukla	20 2022 102 169	Close Range Remote Sensing Versatile Imaging System For Precision Agricultural	Granted
4	Mr. Manish Ranjan Pandey	20 2022 100 927	Artificial Intelligence Mechanism Based Medication Dose Preparation And Transfer System	Granted
5	Dr. Arvind Kumar Shukla	20 2022 100 691	System For Unmanned Intelligent Patrol Electric Vehicles With Mobile Payment	Granted
6	Dr. Arvind Kumar Shukla	20 2022 102 153	Vehicle ad hoc network to avoid traffic accidents	Granted
7	Dr. Arun Kumar Mishra	202022104339	A herbal formulation containing silver nanoparticles with anti-cancer properties	Granted
8	Ankita Wal,Solunke, Rahul Shivajirao, Singh Arun Kumar,Poul Bhagwat Nivruttirao, Navale Sampat Dnyaneshwar, Singh Anita, Mishra Amrita, Pattanayak Shakti Prasad, Negi Divya, Ghodke Amol Yadavrao,	20 2022 103 252	A Natural Sweetner Composition As Sweetening Agent For Diabetes	Granted
9	Ankita Wal, Sumit Das, Rk Ghosh, Sk Hugar, Nh Math, Arun K Mishra, Uddhav Patanja, Vp Patil, Smiriti Sahu, M Thalasingam	20 2022 104 335	An Innovative Bioluminescence Digital Cage for Tracking Rodent Behavior Analysis	Granted
10	Dr. Biswajit Das, Dr. Arun Kumar Mishra, Ms Sonam Harit, Dr. Maneesha Singh, Dr Anju	20 2022 103 133	Design of A Herbal Anti-Mosquito Composition	Granted

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
	Rani, Dr Raj Singh,Chhaya Singh, Dr Tochhawng Lalhriatpuii, Dr. Pallab Kalita, Manasi Khadanga			
11	Dr Abhishek Tiwari, Dr Varsha Tiwari, Navneet Verma, Ms Sangeeta Auti	403640	Development and Evaluation of Rolaxifine Hydrochloride Microsponge Formulation for Topical Delivery	Granted
12	Faisal Mohd, Gupta Deepa, Gupta Puneet, Khunteta Alok, Kumar Chaudhari Vikas, Kumar Swarnkar Surendra, Pandey Shiv Shankar, Singh Harpreet, Supraja Atheriya	20 2022 102 198	Fast Dissolving Tablets For Restoring Immunity Post-Covid	Granted
13	Dr. Sandvo, Stefanie, Dr. Joshi, Hanumanthachar, S., Charan C., Dr. Mishra, Arun Kumar, Dr. Wal, Pranay, Dr. Saurabh, Sumit, Dr. Verma, Amitadr. Khan, Mohd Masih Uzzaman, Dr. Verma, Neeraj, Dr. Niranjan, Suneel Kumar	20 2022 100 164	Herbal Composition With Anti-Amnesia And Cerebroprotective Potentials.	Granted
14	Satendra Kumar, Kumar Jain, Amrita Mishra, Preeti Sharma, Yatendra Singh, Ankur Vishwakarma	20 2022 101 777	Herbal Emulgel For Skin Problems	Granted
15	Dr. Varsha Tiwari	395850	Investigating The Berberine Hydrochloride Loaded Phyto-Phospholipid Complex, Hplc Studies And In Vitro Antioxidant Activity	Granted
16	Alakesh Bharali, Sumanta Bhattacharya, Bramhajit Chatterjee, Amrita Mishra, Sonjit Das, Nitesh Kumar	20 2022 102 391	Polyherbal Formulation For Improving Fertility	Granted
17	Ansari, Mohd Nazam, Garg, Vipin Kumar, Kushwaha, Poonam, Sharma, Nisha, Shukla Sugat, Singh Harpreet, Singh Parul, Usmani	20 2022 100 612	PolykrUter formulierung F¼ R Diabetes	Granted

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
	Shazia, Yadav Meena Kumari			
18	Suresh kumar, Renu Saharan, Abhiskhek Tiwari, Varsha Tiwari, Sunil Singh, Bishwa Sahoo, Manish Kumar, Navneet Verma, Prabhat Upaddhyay, Sukhbir Lal, Jagdish Kumar Sahu, Shailendra Bhatt	2021105736	Synthesis, Characterization and biological evaluation of Vyvlo-octapetide, Cyclogossine B (77)	Granted
19	Tanzeem Ahmad, Nargis Ara, Shabana Khatoon, Arun Kumar Mishra, Anup Kr Sirbiya, Shribastava Lb, Chetan Pp, Meena Singh, Swati Singh	20 2022 102 420	Thiadiazole Derivatives Having Antibacterial Activity	Granted
20	Ramesh Pal, Himanshu Trivedi, Virendra Singh, Satybhan Singh, Ravi Prakash Mishra And Yashpal Singh	202211024577 A	IoT Based Smart Farming for Automatic Crop Monitoring, Irrigation Management and Irrigation Optimization System Using Machine Learning and Cloud Technology.	Published
21	Abhay Saini, Krishan Pal, Richa Khanna, Virendra Singh, Hitesh Kumar Saini And Saurabh Sharma	202211027477 A	Novel Process to Test Efficacy of INM on the Growth and Yield of Tomato.	Published
22	Satybhan Singh, Y.P. Singh, Virendra Singh, Rajesh Singh Chauhan, A.N. Chaubey And O.V.S. Thenua	202211046631 A	Novel Method To Check Performance Of Wheat Cultivars Under Different Fertiliy Levels.	Published
23	Satybhan Singh, Virendra Singh, Krishan Pal And Ramesh Pal	202211046329 A	Novel Method To Check Effect Of Sowing And Irrigation Levels On Wheat.	Published
24	Ramesh Pal, Gargi Shekhar, Virendra Singh, Satybhan Singh, Yashpal Singh And A.N. Chaubey	202211046560 A	Novel Method To Study Attributes Of Farm Yard Manure For Paddle Operated Mechanical Applicator.	Published
25	Dr. Vivek Sharma, Dr. Ritesh Kumar Saxena, Dr. Kamal Kishor Pandey, Dr. Harminder Kaur, Mrs.	202211001023 A	Production and Operation Management System Using IoT	Published

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
	Anjali Saxena, Dr. Megha Bhatia			
26	Dr Salabh Mehrotra, Ms Divya Jain, Dr Karuna Gupta, Dr Ila Arora, Dr Sonia Gouri, Dr Ashish Kumar Saxena, Dr Kalyan Singh Rawal, Ms Payal Makkad, Dr Amit Kumar Arya	202211037128 A	A Deep Learning based Novel Architecturew to Dagnose the Concentration Capacity of a Student During Classroom Learning using Data Management Techniques	Published
27	Dr Feeroj Nasirkhan Pathan; Dr G.Manokaran; Dr Babu V; Dr Ashish Kumar Saxena; Dr T. Sateesh Kumar; Mr S R Seenivasan; Mr Vipin Mahadevan; Dr D Arun Kumar	202221011536 A	A Practice of Total Cost Management for Integrated Product And Production Data Manageemnt	Published
28	Nisha Agarwal, Swati Rai, Arkja Singh	202211020969 A	A System And Wearable Device For Employee Wellness Tracking And Improving Work-Life Balance	Published
29	Dr. Rakesh Kumar Yadav, Dr. J Mahalakshmi, Dr. B. Shivakumar, Dr. P. Sorubarani, Dr. Sneha Rajput, Dr. Rahul Pratap Singh Kaurav, Dr. Jitendra Sharma, Dr. V. Kannan, Dr. Harrison Sunil D	202111061407 A	Analysis Of Marketing Communication Of The Sub Sector Of Tourism	Published
30	Arumugam Ranjith, Dr. Nitu Maurya, Dr. Kamal Kishor Pandey, Dr. Hamid Ullah, Dr. Thanga Marriapan L, Dr. Megha Bhatia, Dr. Rachit Garg, Ms. Deepti Sahu, Ms. Jyotsana, Dr. Harikumar	202141046123 A	Analysis Of Retail Purchase Trend To Understand Customer Behaviour And Purchase Decision Using Programming Language R	Published
31	Prof Nisha Agarwal, Dr Himanshu Gupta, Dr Bhuwan Gupta, Mr Kunwar Ankush Saxena, Ms Moushumi Banerjee, Ms Sandhya Sharma, Ms Jyoti Singh, Dr Lokesh Singh	202211045806 A	Attitude and Skills of Student Psychology in Relation to Enterpreneurship	Published

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
32	Dr Somesh Sharma, Dr Manmohan Bansal, Dr Ashish Saxena, Dr Kiran	202211045076 A	LPG Cylinder Leakage Cover	Published
33	Dr. Rakesh Kumar Yadav, Om Jee Gupta	202211009293 A	Retail Merchandising Aided By Shop Display Systems	Published
34	Dr. D. Ravindran, Dr. Veldandi Ramchander Rao, Dr. Krithika M, Dr. Rakesh Kumar Yadav, Dr. P. Karthikeyan, Dr. S. Thandayuthapani, Dr. Sp. Karuppiah, Dr. D. Murugan, Dr. A. Rajeswari, Dr. D. Joel Jebadurai.	202241001171 A	Small Traders - Perception Towards Corporate Retailing	Published
35	Dr.Arvind Kumar Shukla, Dr. Nabeel Ahmad	202141046324 A	AI and Wireless Based Smart Drug Prescription Management For Autonomous Drug Delivery System	Published
36	Mr. Riden Saxena, Ms. Kriti Srinet, Prof. Madhu Jain	202211045996 A	Novel Composite Reference Standard for the Diagnosis of Gental Tuberculosis in Intertile women	Published
37	Dr.Arvind Kumar Shukla, Dr. Nabeel Ahmad, Dr. Rakesh Kumar Yadav	202111061704 A	A System For Disease Detection In Plants Using Deep Convolutional Neural Network And Method Thereof	Published
38	Sanjeev Bhardwaj, Ashish Nagila, Prof. Vaibhav Trivedi, Prof. Neelu Trivedi, Ankur Jain	202211028727 A	Different Color Detection Using AI & Python	Published
39	Dr. Bharat Bhushan Agarwal	202211031970 A	5G Industrial IoT Enabled Cloud Manufacturing Security Service Architecture Based On Fog Computing And Blockchain	Published
40	Mr.Ashish Nagila,Mr.Sanjeev Bharadwaj, Prof. Vaibhav Trivedi, Mrs. Ritu Nagila, Mrs. Jeetu Rani, Mr. Vimal Kumar	202211004642 A	A System For Detection Of Facial Emotions Using Deep Learning And Method Thereof	Published
41	Mr. Ankur Jain	202211010459 A	A System For Information Management In Computerized Injectors	Published

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
42	Dr. Devendra Singh	202211016952 A	A System For Providing Stable Transmission Control Unit For Congestion Control In IoT Environment	Published
43	Dr.Rakesh Kumar Yadav	202111055055 A	An IoT Based Solar Tracking System Using Deep Learning Analysis And Method Thereof	Published
44	Mrs. Ritu Nagila, Shelly Bhardwaj, Prof. Rahul Mishra	202211026852 A	Artificial Intelligence And Blockchain Based Efficient Learning System	Published
45	Ankur Jain, Sanjeev Bhardwaj, Ashish Nagila	202211025486 A	Artificial Intelligence And Internet Of Things Based Smart Parking System In Smart City	Published
46	Mrs. Ritu Nagila, Prof. Rahul Kumar Mishra, Ms. Shelly Bhardwaj	202211014141 A	Cancer Detection Techniques In Big Data	Published
47	Ankur Jain, Sanjeev, Prof. Vaibhav Trivedi, Sanjeev Bhardwaj, Ashish Nagila,	202211028744 A	Deep Learning Based Detection Of Security Attacks Using In Wireless Sensor Network	Published
48	Mr.Sanjeev Bhardwaj, Mr.Ashish Nagila, Prof.Vaibhav Trivedi, Mr.Ankur Jain, Mrs.Jyoti Rani	202211019222 A	Early And Accurate Detection Of Cardiovascular Disease Using Machine Learning Techniques	Published
49	Ms. Shelly Bharadwaj , Ritu Nagila	202211020785 A	Efficient Security Control Using Big Data Analytics	Published
50	Ankur Jain	202141060766 A	IoT Based Remote Patient Monitoring System Using Wireless Body Area Networks (Wban)	Published
51	Dr. Bharat Bhushan Agarwal	202211007205 A	IoT, Cloud Computing Based Automatic Bed Tracking System In Hospitals Using Ml Algorithms	Published
52	Dr. Bharat Bhushan Agarwal	202211023920 A	Massive IoT Traffic Flow Forecasting Using Time-Aware Locality- Sensitive Hashing Enabled By 6G	Published
53	Dr.Rakesh Kumar Yadav	202111042340 A	Method and System to Classify The Images as A Genuine Image And A Fraud Image	Published
54	Mr.Harpreet Singh Chawla	202211028316 A	Multi Secret Sharing Scheme Using Iterative Method	Published

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
55	Dr. Devendra Singh	202211002933 A	Multiclass Elm Based Smart Trustworthy Ids For Manets	Published
56	Mr.Ashish Nagila,Mr.Sanjeev Bhardwaj, Prof.Vaibhav Trivedi, Mr.Ankur Jain	202211021962 A	Plant Leaf Disease Detection Using Machine Learning	Published
57	Ankur Jain, Sanjeev Bhardwaj, Ashish Nagila	202111057510 A	Uav Obstacle Avoidance Using Vision Based Deep Reinforcement Learning Algorithm	Published
58	Mrs.Ritu Nagila, Ms.Shelly Bharadwaj, Dr.Abhishek Kumar Mishra	202211003164 A	A Sensor-Based Big Data Analytics for Patient Monitoring In Healthcare Applications	Published
59	Dr. Alok Ranjan Tripathi, Dr. V. Selvi, Dr. Manish Ranjan Pandey, Dr. Rajesh Kumar Maurya, Mr. Prince, Dr. Ashish Kumar Tamrakar, Khusbhu Pandey, Ms. Reenu Batra, Mr. Vinu S., Dr. Naveen N. M.	202231005713 A	AI Based SMS Spam Detection Using Machine Learining Approach	Published
60	Mr. Manish Ranjan Pandey	202141049776 A	Cloud And IoT Based Implementation Of Intelligent E-Mirror System Using Python Language	Published
61	Dr.Arvind Kumar Shukla	202141037949 A	Image Processing Based Paddy Leaf Disease Detection Using Adaboost Classifier.	Published
62	Mr. Rajdeep Singh	202141034881 A	Intelligent Real-Time Sensortms Data For Automated Decision Making In An IoT-Based Smart Home	Published
63	Mr. Lalit Johari	202141050744 A	IoT And Cloud Based Energy Harvesting Technique For Rail By Using Zigbee Communication	Published
64	Dr.Arvind Kumar Shukla	202141033357 A	Machine Learning And Fuzzy Logic Based Smart Detection Of Chronic Lung Cancer	Published
65	Kannadasan Balakrishnan, Srinath Balkundhi, Rahul Dubey, Shoaib Kamal, Vikas Mahor, Hemalatha, Manish Ranjan Pandey,	202022101023	System For Mapping Digital Field Images For Prediction Of Seed Harvest Moisture Using Machine Learning Models	Published

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
	Rajdeep Singh, Simar Preet Singh, Venkatesa Prabhu Sundramurthy			
66	Mr. P. Rajaseka,Dr Arvind Kumar Shukla,Dr. P. Sanjeeva Rayudu,Mr. Appasami G	L-107946/2021	Plant Disease Detection Using Image Processing Techniques	Published
67	Dr. Arvind Kumar Shukla	202241022452 A	Vehicular Adhoc Network To Avoid Road Accidents	Published
68	Dr.Revathi.R, Ms. Ayesha Naureen, Mr. Rajesh N. Kamath, Ms. Manju Bagga, Dr.Reshma V.K, Mr. Lalit Johari, Mr. Y. M. Mahaboobjohn, Dr. Indraneel Sreeram, Dr.Manoranjan Dash, Dr.Preeti Y Shadangi, Dr. Arun Kumar Pallathadka, Dr. Harikumar Pallathadka	202241007202 A	IoT, Cyber Security Based Innovative Calamity Observing System Using Thing Speak Web	Published
69	Dr. T. Gunasekar, Dr P. Mercy, Dr. E Sarva Rameswarudu, Ms. Lipsa Das, Dr S. Christopher, Mr. Lalit Johari, Dr. Rajeev Kumar Shakya, Dr. Saurabh Sharma, Dr. Umesh Sehgal, Ms. Nirmal Kaur	202241003733 A	Vedic-Mathematics Based Effective High- Speed And Low Power Multiplier Architecture Using For Dsp Application	Published
70	Dr. Rahul Kumar Mishra	202211033147 A	The Internet Of Things (Iot) Uses A Machine Learning Approach Built On Block-Sparse Coding For Accurate Device-Free Localisation	Published
71	Prof. Rahul Kumar Mishra	202211018972 A	Iot With Deep Learning Based Automatic Eye Cataract Detection Using Matlab Approach	Published
72	Dr Abhishek Kumar Mishra, Mr Avadhesh Kumar Dixit, Mr Brajesh Kumar Sharma, Dr Rakesh Kumar Yadav, Dr Arvind Kumar shukla, Mr Harpreet Singh Chawla, Mr Amit Yadav	202211045379 A	A System And Method For Contrast Enhancement Of Color Images Using Optimized Fuzzy Intensification	Published

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
73	Dr. Nabeel Ahmad, Dr. Intezar Mehdi, Dr. Arvind Kumar Shukla	202211008516 A	Nanobased Portable Device for water purification	Published
74	Dr. Arvind Kumar Shukla	202211045061 A	Biomedical Interventions With Integration Of Image Registrations And Calculations To Predict The Life Span Of Humans Suffering From Brain Tumours	Published
75	Mrs. Ritu Nagila, Prof. Rahul Kumar Mishra, Ms. Shelly Bhardwaj, Dr. Abhishek Kumar Mishra	202211045956 A	Cancer Detection in Lungs using Big Data	Published
76	Ashish Nagila, Sanjeev Bhardwaj, Prof. Vaibhav Trivedi, Prof. Neelu Trivedi, Ankur Jain	202211028728 A	Social Distance and Monitoring Using IoT and Python	Published
77	Dr. Lalit Johari	202241037111 A	Detecting Botnet Cyber-Attacks in IoT Scenarios using Dynamic Residual Projection of Concept Drift	Published
78	Dr. Bharat Bhushan Agarawal	202211045530 A	High Performance Computing (HPC) Integration of IoT and Big Data Analytics: Design and experimental Evaluation of an HPDA Framework for eScience at Scale	Published
79	Dr. Rahul Kumar Mishra	202211043968 A	IoT with Artificial Intelligence (AI) is based on the use of smart chips to create an embedded operating system with a high level of confidence	Published
80	Dr Devendra Singh, Dr Anil Kumar, Mr Ankur Chahal, Dr Rahul kumar Mishra	202211044328 A	Trust Aware Intrusion Detection System Based on Cluster	Published
81	Mr Ashish Nagila, Dr Rakesh Kumar Yadav	202211044994 A	Turmeric Leaf Disease Detection using CNN Model and IOT	Published
82	Mr. Pramod Kumar, Mr. Syed Baqar Imam, Dr. Intezar Mahdi, Mr. Gaurav Hawadiyams. Sheetal Sagar Ms. Nisha Kashyap Ms. Deepali Vasudev	202211031877 A	A Canal Restructureing Systemfor Agriculture Land	Published

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83	Prashant Sharma, Vaibhav Trivedi, Shashank Kumar, Vivek Shankhdhar, Mayank Bhardwaj, Kuldeep Dubey, Prashant Kumar	202211025452 A	A Diesel Engine Fueled With Diesel And Water–In–Diesel Emulsion Using Different Surfactants	Published
84	Mr. Rajbahadur, Mr. Neeraj Kumar, Mr. Mahavir Singh Rawat, Dr. Vaibhav Trivedi, Dr. Neelu Trivedi	202211028860 A	A Method for Study on Analysis of Cross Drainage Work	Published
85	Mr. Rajbahadur, Mr. Neeraj Kumar, Mr. Mahavir Singh Rawat, Dr. Vaibhav Trivedi, Dr. Neelu Trivedi	202211034713 A	A Methodology For Testing Of Waste Material For Using It As Road Pavement In Place Of Bitumen And Aggregate	Published
86	Mr. Rajbahadur, Mr. Neeraj Kumar, Mr. Mahavir Singh Rawat, Dr. Vaibhav Trivedi, Dr. Neelu Trivedi	202211029887 A	A Methodology of Condouring For Analysis Grid Condour Survey	Published
87	Madhvi Gupta, Ankit Agarwal, Dr. Hitesh Joshi, Shalabh Gaur, Swati Singh, Kanchan Singh	202211024226 A	A Mitigation of Congestion Using TCPAR Facts Controller	Published
88	Dr. Anil Kumar, Mr. Ankur Chahal, Dr. Intezar Mahdi	202211021394 A	A Neural Network-Based System for Diagnostics of Asthma	Published
89	Dr. Vishal Saxena Dr. Intezar Mahdi Mr. Nadeem Ahmad Mr. Mrigendra Amb	202211030165 A	A Novel Composition For Two-Wheeler Connecting Rod	Published
90	Mr. Dharmaraj Singh, Dr. Intezar Mahdi, Dr. Anil Kumar, Mr. Hemant Mishra, Mr. Syed Baqar Imam	202211028907 A	A Novel Composition Having Methyl Ester Fatty Acids as an Additive in A Lubricant for External Meshing Machine Components and Preparation Method Thereof	Published
91	Mr. Mrigendra Amb, Dr. Intezar Mahdi, Mr. Hemant Mishra, Mr. Dharamraj Singh, Mr. Nadeem Ahmad	202211030703 A	A Novel Synthesis Of Metallic Silver Nanoparticles,Characterization And Method Thereof	Published
92	Mr. Sanjeev Kumar Singh, Dr. Puneet Khanna, Mrs. Shilpi Pal, Dr. Neelu Trivedi, Dr. Amar Sharma	202211026410 A	A Sundry-Band Annular Ringh Shaped Microstrip Patch Antenna With Defected Ground Structure	Published

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93	Dr. Shalu Chaudhary, Dr. Anil Kumar, Mr. Ankur Chahal, Ms. Pooja Sharma, Mr. Munendra Kumar, Mrs. Debika Choudhari	202211026890 A	A System And Method For Dielectric Properties Optimization Of Poly-Vinyl Phenol (Pvp) For An Ofet Fabrication	Published
94	Ayush Saxena, Vaibhav Trivedi, Bhavna Singh, Shashank Kumar, Mayank Bharadvaj, Arvind Chaudhary, Prashant Sharma, Mohd. Javed, Kuldeep Dubey	202211025687 A	A System For Postural Analysis In The Shoveling Process	Published
95	Mr. Shalabh Gaur, Dr. Neelu Trivedi, Dr. Puneet Khanna, Dr. Hitesh Joshi, Mr. Ankit Agarwal, Mr. Sanjeev Kumar Singh, Mrs. Swati Singh	202211027855 A	A Tri-Band Microstrip Patch Antenna With Back To Back E-Shape Slot	Published
96	Dr. Amar Sharma, Dr. Puneet Khanna, Mr. Sanjeev Kumar Singh, Mr. Ravindra Pratap Singh, Ms. Rupali Agarwal	202211006161 A	A Wideband Rectangular Microstrip Array Antenna	Published
97	Mr. Neeraj Kumar, Mr. Rajbahadur, Mr. Mahavir Singh Rawat, Dr. Vaibhav Trivedi, Dr. Neelu Trivedi	202211028590 A	An Analyzing Method For Use Of Recycled Aggregates In Concrete	Published
98	Dr. Manoj Kumar, Mr. Sanjay Singh, Mr. Abhishek Srivastava, Dr. Vaibhav Trivedi, Mr. Sanjay Kumar Yadav, Ms. Anam Khalid, Dr. Anupam Srivastava	202211034662 A	Analysis Of Piezo-Mems Generator For Energy Harvesting From Various Sources Of Vibration	Published
99	Dr. Intezar Mahdi, Dr. Vishal Saxena, Mr. Hemant Mishra	202211025663 A	Anti-Friction Additive And Method For Using Same	Published
100	Mr. Kapil Gill, Dr. Vaibhav Trivedi, Mr. Shashank Kumar, Mr. Prashant Sharma, Mr. Prashant Kumar, Mr. Mayank Bharadvaj, Mr. Vivek Shankhdhar, Mr. Mohammad Javed, Mr. Ayush Saxena	202211046923 A	Characteristics Of TI Based Biomaterial As Orthopedic Implants	Published

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101	Mr. Ravi Kumar, Mr. Sanjay Singh	202211046640 A	Development & Characterization Of A Self Assembled Smart Material For Oxygen Sensitivity	Published
102	Mr. Mayank Bharadvaj, Dr. Vaibhav Trivedi, Mr. Vivek Shankhdhar, Mr. Ayush Saxena, Mrs. Bhavana Singh, Mr. Shashank Kumar, Mr. Arvind Chaudhary, Mr. Prashant Sharma, Mr. Mohammad Javed	202211046072 A	Development And Characterization Of Natural Fiber/Filler Reinforced Polylactic Acid Biocomposites	Published
103	Mrs. Bhavana Singh, Dr. Vaibhav Trivedi, Mr. Ayush Saxena, Mr. Mayank Bharadvaj, Mr. Vivek Shankhdhar, Mr. Shashank Kumar, Mr. Arvind Chaudhary, Mr. Mohammad Javed	202211046250 A	Emission Traits Of Diesel Engine At Various Injection Timing Using Blends Of Sesame Oil Biodiesel	Published
104	Mr. Mahavir Singh Rawat, Mr. Rajbahadur, Mr. Neeraj Kumar, Dr. Vaibhav Trivedi, Dr. Neelu Trivedi	202211024334 A	Environmental Impact On The Performance Of Recycled Aggregate Concrete	Published
105	Mr. Sanjay Kumar Yadav, Prof. Manoj Kumar, Prof. Intezar Mahdi, Prof. Vishal Saxena, Mr. Abishek Srivastava, Mr. Sanjay Singh	202211035182 A	Evaluation Of Diesel Engine Performance Parameters Fuelled With Blends Of Biodiesel Of Waste Sesame Oil	Published
106	MS Nisha Kashyap, Mr Gaurav Hawadiya, Mr Pramod Kumar Yadav, Ms Deepali Vasudev, Ms Sheetal Sagar, Mr Karan Tiwari	202211045365 A	Expansive Soil Modification by the Application of Waste Materials	Published
107	Vaibhav Trivedi, Kuldeep Dubey, Vivek Shankhdhar, Mohd Javed, Mayank Bharadvaj, Prashant Kumar	202211031457 A	Experimental Investigation And Effects Of Biomedical Implantson Human Body By In Vitro Corrosion Studies	Published
108	Mr. Prashant Sharma, Dr. Vaibhav Trivedi, Mr. Shashank Kumar, Mr. Kapil Gill, Mr. Prshant Kumar, Mr. Mayank	202211046717 A	Factors Affecting Emissions From Diesel Fuel And Water-In-Diesel Emulsion	Published

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	Bharadvaj, Mr. Vivek Shankhdhar, Mr. Mohammad Javed, Mr. Ayush Saxena			
109	Bhavana Singh, Vaibhav Trivedi, Ayush Saxena, Shashank Kumar, Vivek Shankhdhar,Mayank Bhardavaj, Arvind Chaudhary	202211025973 A	Graphical Evaluation Of CI Engine Performance Using Sesame Oil Bio Diesel By Varying Injection Timing	Published
110	Mr. Shalabh Gaur	202231007537 A	Helmet And License Plate Detection Using Machine Learning And Ai- Based Programming.	Published
111	Mr. Mahavir Singh Rawat, Mr. Neeraj Kumar, Mr.Rajbahadur, Dr. Vaibhav Trivedi, Dr. Neelu Trivedi	202211026951 A	Influence Of Ground-Granulated Blast-Furnace Slag On The Structural Performance Of Self Compacting Concrete	Published
112	Vivek Shankhdhar, Vaibhav Trivedi, Mayank Bharadvaj, Shashank Kumar,Ayush Saxena , Bhavana Singh, Arvind Chaudhary	202211026316 A	Injection Modeling And Experimental Validation Of DI Diesel Engine Fueled With Diesel And Biodiesel Blends	Published
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116	Mohd Javed, Vaibhav Trivedi, Vivek Shankhdhar,Mayank Bhardavaj,Ayush Saxena, Bahavana Singh, Shashank Kumar, Arvind Chaudhary,	202211027856 A	Modeling And Simulation For Service Points In Sheet Metal Automotive Component Of Manufacturing Industry	Published

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118	Ms Deepali Vasudev, Mr Gaurav Hawadiya, Ms Nisha kashyap, Mr Pramod Kumar Yadav, Ms Sheetal Sagar, Mr Karan Tiwari	202211045047 A	Seismic Analysis of Multi Storied Reinforced Concrete RC Framed Structure with and without Diaphragm Discontinuity	Published
119	Mr. Mohammad Javed, Dr. Vaibhav Trivedi, Mr. Vivek Shankhdhar, Mr. Mayank Bharadvaj, Mr. Kapil Gill, Mr. Ayush Saxena, Mr. Arvind Chaudhary	202211047005 A	Simulation Modelling to Solve Waiting Line Problem In Sheet Metal Automobile Component Of Manufacturing Industry	Published
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122	Mr.Arvind Chaudhary,Dr.Vaibhav Trivedi,Mr.Mayank Bhardwaj, Mr. Shashank Kumar,Mr. Ayush Saxena, Mrs Bhavna Singh,Mr.Vivek Shankhdhar, Mr.Mohammad Javed, Mr.Kuldeep Dubey,Mr.Naveen Kumar	202211025739 A	The Effect Of Fiber Content On Physical,Chemical Properties Of Fiber And Dust Powder Composite	Published
123	Dr. Puneet Khanna, Dr. Amar Sharma, Mr. Sanjeev Kumar Singh, Mrs. Swati Singh, Mr. Shanker Singh Yadav	202211013853 A	Wideband Polygon Ring Microstrip Antenna With Structure Shaped Ground	Published
124	Mr. Ankit Agarwal, Ms. Madhvi Gupta, Dr. Hitesh Joshi, Dr. Puneet Khanna, Ms. Swati Singh, Mr.	202211034663 A	A System for over current and over voltage protection of transformer unit by using micro-controller	Published

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125	Dr. Rajan Singh, Dr. B. K. Singh, Dr. Riddhi Garg, Mr. Amit Bhatnager, Mr. Deepak Sharma, Mr. Vipin Kr. Singh	202211030687 A	A Method of Propagation of The Shock Waves in The Exponentially Decreacing Atmosphere	Published
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129	Varsha Tiwari, Abhishek Tiwari, Navneet Verma	202211042856	A Method of Docking of Phyto-Constituents os Therapeutic Leads Against Sars COV-2	Published
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132	Prof.(Dr.) N. G. Raghavendra Rao, Md Aquib Ahsan, Dr. Arunkumar P.M , Dr. Sudharani B Banappagoudar, Dr. S. Saravanan, Dr. Mukesh Kumar Singh, Dr. Achal Mishra, Priya Bansal, Dr. Abhishek Kumar, Dr. Brijesh Sathian, Mr. Surya Prakash	202211020763 A	AI Based Safe Healthcare System For Fertility Preservation For Young Woman With Breast Cancer Using Cloud And Machine Learning Algorithms	Published

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134	Dr. Sukriti Upadhyay, Dr. Prashant Upadhyay, Mr. Bhaskar Kumar	202211042338 A	Anti Anxiety Activity And Hptlc Profiling Of Bioactive Fractions Of Ziziphus Jujube Leaves	Published
135	Ms Km Monika, Dr Navneet Verma, Mr Vipul Kumar, Ms Neetu Singh, Ms Swati Gautam, Mr Raj Kumar Singh Bharti, Mr Vivek Kumar	202211044739 A	Anti Hyperlipidemic Investigations of Litchi Chinensis in Rats	Published
136	Dr. Shweta Verma	202111054970 A	Anticonvulsant Effect Of 3-(2-((4-Chlorophenyl) Amino) Acetyl)-5, 5-Diphenylimidazolidine-2,4-Dione	Published
137	Dr. Divaker Shukla	202111056324 A	Antidiabetic Activity Of The Leaves And Stem Of Bauhinia Vahlii	Published
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148	Dr. Amrita Mishra ,Mr. Amardeep Singh ,Dr. Arvind Kumar ,Dr. Harpreet Singh ,Mr. Shahbaz Khan ,Dr. Alka Lohani ,Dr. Meena K Yadav, Dr. Arun Kumar Mishra	202211002490 A	Anti-Psychotic Potential Of Extracts Of Anglica Glauca L. Roots	Published
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155	Dr. Asheesh Kumar Gupta, Dr. Arun Kumar Mishra, Dr. Ramandeep Singh, Dr. Harpreet Singh, Dr. Mukesh Kumar Singh, Dr. Amrita Mishra, Dr. Sushil Kumar	202211024662 A	Cocos Nucifera (Coconut) Husk Ash As Anthelmintic Drug Substance	Published
156	Mr. Shivam, Dr. Phool Chandra, Dr. Sushil Kumar, Mr. Amit Kumar, Ms. Pooja Malik, Mr. Munna Singh	202211020970 A	Development and Characterization of Herbal Formulation of Sesamum Indicum for the Treatment of Gastric Ulcers	Published
157	Varsha Tiwari, Abhishek Tiwari, Prabhat Kumar Upadhyay, Jammula Sruti, Biswa Mohan Sahoo, Manish Kumar, Suresh Kumar, Renu Saharan, Sunil Singh, Rohit Mohan, Anita Singh, Vipin Saini, Anand Poddar	2022/08191	Development and Evaluation of Aceclofenac-Loaded Solid Lipid Microparicles Based Topical Gel Formulation	Published
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160	Mr Munna Singh, Mr Sateesh Kumar, Mr Sumit Kumar, Dr Sushil Kumar, Mr Raj Kumar Singh Bharti, Mr Mohammad Arif, Mr Shivam, Mr Amit Kumar, Ms pooja Singh	202211045418 A	Development of Functionalized Silver Nanoparticles From Allamanda Neriifolia	Published
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167	Mr. Aditya Sharma	202211033043 A	Formulation And Development Of Lipid Based Drug Delivery System Of Gliclazide	Published
168	Ms. Pooja Malik, Ms. Payal Malik, Mr. Amit Kumar, Mr. Shivam, Ms. Mujeeba Rehman, Mr. Navneet Thakkar, Mr. Sandeep Singh	202211014305 A	Formulation And Development Of Oral Disintegrating Tablet Of Metoprolol Tartrate	Published
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171	Ms. Pooja Malik, Dr. Prashant Upadhyay, Dr. Sukirti Upadhyay, Dr. Sushil Kumar, Ms. Payal Malik, Mr. Navneet Thakkar, Mr. Sandeep	202211025231 A	Formulation And Evaluation Of Gastro-Retentive Floating Tablets Of Acyclovir Using Hydrotropic Solubilization Technique	Published

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172	Heena Farooqui, Ataul Hasan, Sushil Kumar	202111057928 A	Formulation And Evaluation of Transdermal Patch Of Curcumin Containing Lemon Grass Oil As Penetration Enhancer	Published
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175	Varsha Tiwari, Abhishek Tiwari, Prabhat Kumar Upadhyay, Manish Kumar, Suresh Kumar, Renu Saharan, Navneet Verma , Sunil Singh, Nikita Kaushal , Chandra Shekhar Sharma , Vipin Saini, Anand Poddar	2022/08192	Formulation Development and Evaluation of Poly-Herbal Nano-emulgel for Topical Drug Delivery	Published
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185	Dr. Prashant Upadhyay	202211033853 A	In Vitro Characterization And Invivo Evaluation Of Rutin Trihydrate Loaded Liposomes For Improved Efficacy	Published
186	Dr. Mukesh Kumar Singh, Mr. Ashwanee Kumar Sahu, Dr. Arun Kumar Mishra, Dr. Amrita Mishra, Dr. Asheesh Kumar Gupta, Dr. Sushil Kumar, Dr. Anand Mahalwar, Mr. Yugal Kishor Rajput, Mr. Rajendra Kumar Sahu, Ms. Vinita Goti, Mr. Omprakash Sahu, Mr. Onkar Kurre	202211028460 A	Investigation Of Free Radical Scavenging Antioxidant And Antimicrobial Activity Of Cornsilk	Published
187	Ms Ramandeep Kaur, Dr. Alka Lohani, Mr Swatantr Bahadur Singh, Mr. Pushpedra Singh, Ms Rita Yadav	202211038014 A	Lipid Vesicles For The Effective Treatment Of Fungal Infection Through Topical Gel Formulation	Published
188	Dr. Abhishek Tiwari, Dr. Suresh Kumar , Dr. Varsha Tiwari , Dr. Manish Kumar , Dr. Renu	202211046269 A	Methods of Synthesis, Characterization and Biological Evaluation of Cyclo-octapeptide, Cyclogossine-B	Published

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190	Dr. Deepak Kumar Basedia, Dr. Ashish Jain, Dr. Balkishna Dubey, Mr. Vivek Singh Thakur, Mr. Ritesh Patel, Dr. Gurdeep Singh, Dr. Mukesh Kumar Singh , Mr. Sudeep Kumar Mandal	202221015019 A	Microwave Mediated Synthesis And Cytotoxic Evaluation Of Novel Substituted S-Triazine Derivatives	Published
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197	Mr. Amit Kumar, Dr. Sushil Kumar, Mr. Anesh Sagar, Mr. Vivek Kumar, Mr. Satendra Kumar, Mr. Rahul Chauhan, Mr. Raj Kumar Bharti, Dr. Abhishek Suman	202211027824 A	Novel Antimicrobial Acetamide And Synthesis Thereof	Published
198	Dr. Girendra Kumar Gautam , Mr. Jadhav Sujit Appasaheb, Dr. Anshu Sharma, Dr. Harpreet Singh, Dr. Bipin Kumar Verma, Dr. Shivendra Agarwal , Mr. Ravi Kumar, Ms. Aarti Chopra, Ms. Sweta Pundir, Mr. Sonu, Mr. Tinku Kumar, Mr. Gaurav Kumar	202211006216 A	Novel Topical Formulation of Glycopyrolate For Preventing Hyperhidrosis	Published
199	Heena Farooqui, Prashant Upadhyay, Sukirti Upadhyay, Sushil Kumar	202211005401 A	Optimization and Characterization of Self Nano Emulsifying Drug Delivery System Loaded With 18-B Glycerrhetenic Acid	Published
200	Mr Ashwin Kumar Saxena, Dr Navneet Veerma, Dr Sushil Kumar, Dr Mukesh Kumar Singh, Mr Aditya Sharma	202211044547 A	Oral Sustained Delivery of Piroxicam from In-Situ Gelling using Gellan and Sodium Alginate Formulation	Published
201	Mr.Anesh Sagar, Mr.Raj Kumar Singh Bharti, Dr.Sushil Kumar, Mr.Amit Kumar,Mr.Dinesh Kumar,Mr.Shivam,Mr.Amit Kumar,Mrs.Neha Rahi	202211044054 A	Pharmacological Estimation of Nootropic Actions of Averrhoa Carambola	Published
202	Mr Raj Kumar Singh Bharti, Mr Sateesh Kumar, Dr Sushil Kumar, Ms Neha Rahi, Mr Shivam, Mr Amit Kumar, Mr Munna Singh, Mr Anesh Sagar	202211044221 A	Pharmacological Evaluation of Analgesic Activities of Amaranthus Spinosus Stem	Published

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204	Dr. Mukesh Kumar Singh, Dr. Gurdeep Singh, Dr. Deepak Kumar Basedia, Dr. Alok Singh Thakur, Dr. Dr. Ajit Kumar Pandey, Dr. Ritesh Patel, Mr. Sudeep Kumar Mandal, Dr. Asheesh Kumar Gupta, Dr. Arun Kumar Mishra, Dr. Amrita Mishra, Dr. Sushil Kumar	202211020408 A	Phytochemical Screening, Antimicrobial, and Antioxidant Free Radical Scavenging Activity Of Orthosiphon Pallidus	Published
205	Mr Swatantr Bahadur Singh, Dr Sukirti Upadhyay, Dr Prashant Upadhyay, Dr Amrita Mishra	202211015478 A	Polyherbal Deordorizing, Bleaching And Antimicrobial Formulation For Dental Care	Published
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207	Dr. Pawan Singh	202211006160 A	Preparation And Characterization of Floating Microspheres Prepared By Biodegradable Polymer	Published
208	Dr. Abhishek Suman,Dr. Amrita Mishra, Ms. Alka Lohani, Dr. Arun Kumar Mishra	202111044052 A	Process For Producing Refined Nutraceutical Composition From Corchorus Depressus (L.)	Published
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214	Dr. Sushil Kumar, Mr. Ashish Sharma, Dr. Shweta Verma, Ms. Heena Farooqui	202211012800 A	Synthesis And Antipsychotic Activity Of 1-(4-(2-(4-Phenylpiperazin-1-Yl)Ethoxy)Phenyl)Ethanone	Published
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216	Mr Swatantr Bahadur Singh, Ms Km Pooja Saini, Dr Sushil Kumar, Dr Amrita Mishra	202211027299 A	Synthesis, Anti Inflamatory & Analgesic Activity Of Benzimidazole	Published
217	Dr. Abhishek Tiwari, Dr. Suresh Kumar, Dr. Varsa Tiwari, Dr. Manish Kumar, Dr. Renu Saran, Dr. Pankaj Gupta, Dr. Ajay Pal Singh, Dr. Ashutosh Aggarwal	202211046268 A	Synthesis, Characterization and Evaluation of Integerrimide-A as Potential Antimicrobial and Anticancer Agent	Published
218	Dr. Prashant Upadhyay And Dr. Sukirti Upadhyay	202211026032 A	Theophylline Loaded Sustained Release Floating Multi-Particulate Oral Drug Delivery System	Published
219	Dr. Arun Kumar Mishra	202111059098 A	Thiobarbituric Acid Derivative With Anticonvulsant Potential	Published
220	Dr. Harpreet Singh, Amit Rishi, Dr. Arun Kumar Mishra, Dr. Arvind Kumar, Mr. Vikas Kumar Chaudhari, Dr. Sushil Kumar, Dr. Navneet Verma	202211046231 A	TLC Fingersof Putranjiv a Roxburghii wall seed extracts and Preparation thereof	Published

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S.No	Name of the Faculty (s)	Patent Number	Title of the Patent	Status
221	Dr. Harpreet Singh, Ms. Km. Monika, Dr. Arun Kumar Mishra, Dr. Amrita Mishra, Mr. Vikas Kumar Chaudhari, Mrs. Km. Shalini, Ms. Km. Sonal, Dr. Arvind Kumar, Mr. Alankar Shrivastav , Dr. Asheesh Kumar Gupta, Dr. Sushil Kumar, Dr. Navneet Verma	202211024652 A	Topical Herbal Ointment For Wound Healing	Published
222	Mr. Alankar Shrivastav	202111055193 A	Wound Healing Potential Of Tridax Procumbens Linn	Published
223	Dr. Rakesh Kumar Yadav, Dr. Arasu R, Dr. Amrendra Kumar, Dr. Abadh Narayan Singh, Dr. Praveen Kumar S, Dr. Magdalene Peter, Dr. Gowtham Aashirwad Kumar, Dr. N. Muthusel Vi, Dr. Ruchi Dwivedi, Mrs. K. Karpagambigal, Dr. Ashutosh Priya, Ms. Silky Sharma	202211008832 A	Study On Advertisements And Sales Promotional Activities	Published
224	Dr. Kamal Kishor Pandey	202121045307 A	The Impact Of Indian Tourism Development on the Country's Economic Growth	Published

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(12) PATENT APPLICATION PUBLICATION (21) Application No.202311053023 A
(19) INDIA
(22) Date of filing of Application :08/08/2023 (43) Publication Date : 01/09/2023

(54) Title of the invention : DESIGNING, MOLECULAR DOCKING AND BIOLOGICAL EVALUATION OF PHENOTHIAZINE DERIVATIVES AS INHIBITORS OF ANXIETY

(51) International classification :A61P0025220000, A61P0025200000, B01J0019000000, A61P0001080000, C40B0050140000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the design and synthesis of novel phenothiazine derivatives, specifically a series of 1-(10H-phenothiazin-10-yl)-2-(4-((phenylimino)methyl)phenoxy)ethan-1-one (D1-D10). The characterization of these derivatives were done by using FTIR and NMR spectroscopy. The potential interactions of the synthesized compounds with target proteins,were identified by using the computational studies and docking simulations, which were performed using Autodock Vina, Chem Draw Ultra, and Chem3D software. Furthermore, the anti-anxiety activity of the newly synthesized compounds was evaluated using the elevated plus maze method. Notably, compounds D4, D5, and D7 demonstrated remarkable potency against anxiety compared to the standard anti-anxiety drug, Diazepam. These findings suggest the potential of these phenothiazine derivatives as promising candidates for further development as effective anti-anxiety agents in medicinal chemistry research.

No. of Pages : 16 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/08/2023

(21) Application No.202311053024 A
(43) Publication Date : 01/09/2023

(54) Title of the invention : SYNTHESIS, CHARACTERIZATION, MOLECULAR DOCKING AND ANTI- ANXIETY EVALUATION OF SOME NOVEL PHENOTHIAZINE DERIVATIVES

(51) International classification :G16B0015300000, A61P0025220000, G16C0020500000, G01N0033580000, G01N0024080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention relates to a series of novel phenothiazine derivatives, 4a-4j and 5a-5e, were successfully synthesized by condensing 2-(4-acetylphenoxy)-1-(10H-phenothiazin-10-yl)ethan-1-one (3) with various carbonyl compounds in acetonitrile. The purity and progress of the reactions were confirmed using melting point and TLC. The synthesized compounds were thoroughly characterized using IR, 1H-NMR spectroscopy, and elemental analysis. Molecular docking studies were performed using Autodock to assess their potential binding interactions. The docking scores ranged from -8.7 to -10.2, indicating good potential for binding to target receptors associated with anxiety. To evaluate their anti-anxiety activity, the synthesized derivatives were tested using the Elevated Plus Maze method on Wistar rats, with Diazepam as the standard drug. Compounds 4e, 4g, and 5e exhibited the highest potency among the derivatives, surpassing the activity of Diazepam. These findings suggest that these novel phenothiazine derivatives hold promise as potential anti-anxiety agents.

No. of Pages : 18 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/11/2023

(21) Application No.202311079477 A
(43) Publication Date : 29/12/2023

(54) Title of the invention : EFFECTS OF CLITOREA TERNATEA LINN. AGAINST STREPTOZOTOCIN INDUCED DIABETES IN RATS

(51) International classification :A61P0003100000, A61K0038440000, A61P0019020000, A61P0009100000, A61P0001000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to pharmaceutical field, be specifically related to effects of Clitorea ternateaLinn.against Streptozotocin induced diabetes in rats. By measuring fasting serum glucose (FSG) using the enzymatic glucose oxidase or peroxidase technique, the antihyperglycemic effect of EECT was investigated in normal fasted, glucose-fed, hyperglycemic rats. Lipid peroxide/thiobarbituric acid reactive substances (TBARS), superoxide dismutase (SOD), total nitric oxide, catalase (CAT) and glutathione levels were assayed in diabetic rats. EECT (100 and 300 mg/kg) demonstrated noteworthy antihyperglycemic activity by reducing fasting glucose (FSG) in all hyperglycemic models, where FSG was only improved with EECT at a 300 mg/kg dose. Additionally, animals treated with EECT (100 and 300 mg/kg) showed a significant decrease in TBARS ($P<0.001$), nitric oxide and a significant increase in SOD, CAT and reduced glutathione levels in comparison to the diabetic control group.

No. of Pages : 13 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/05/2023

(21) Application No.202311035568 A
(43) Publication Date : 30/06/2023

(54) Title of the invention : DESIGNING TO IMPROVE MENTAL HEALTH IN THE WORKPLACE THRU IMPLEMENTING HRM & AI/ML METHODS

(51) International classification	:A61B 050000, A61B 050240, C12Q 016860, G16H 102000, G16H 207000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Abstract Increasing attention is being paid to the problem of how to improve workers' mental health in the modern workplace. Several factors, such as an increase in the number of businesses, heightened competition, and the development of new technological advancements, are placing a strain on the working population. Workplace stress can amplify already negative emotions like fatigue, depression, and hopelessness. The success of ongoing initiatives and objectives is heavily influenced by the culture of the workplace. There are many potential contributors to an unhealthy workplace, such as poor management, unhelpful co-workers, too much work, too little time, too many boring tasks, and poor lines of communication. The goal of this research is to show why so many businesses are now worried about their employee's mental health and put an emphasis on providing a positive work environment by illuminating the significance of mental health and the contribution that HRM makes to its provision within an organisation. The findings of this study should also shed light on why it's become a priority for many businesses to foster supportive workplace cultures. To accomplish this, HRM professionals will advocate for the value of mental health care and the HR department's role in facilitating employees' access to it.

No. of Pages : 13 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/07/2023

(21) Application No.202311047761 A
(43) Publication Date : 25/08/2023

(54) Title of the invention : SYNTHESIS, CHARACTERIZATION, AND CADMIUM TOXICITY REDUCTION OF ARYL ACRYLIC ACID SUBSTITUTED DERIVATIVES IN BIOLOGICAL SAMPLES

(51) International classification :A61P0013120000, A61P0011000000, A61P0009100000, C07D0405040000, A61P0001160000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT The present invention relates synthesis, characterization, and cadmium toxicity reduction of aryl acrylic acid substituted derivatives in biological samples. The invention provides the method for the synthesis of substituted aryl acrylic acid derivatives. The invention also discloses that a-mercapto-ß-acrylic acid derivatives are effective in reducing cadmium levels in blood and tissues. The cadmium levels decreases after treatment with a-mercapto-ß-aryl acrylic acid derivatives in blood and tissues in all groups. The thiol level lowers in the plasma, liver, and renal tissues of the cadmium-exposed group. The invention also discloses that a-Mercapto-ß-m- methoxy, (p-hydroxy phenyl) acrylic acid shows significant anti-oxidant activity.

No. of Pages : 22 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/09/2023

(21) Application No.202311058693 A
(43) Publication Date : 06/10/2023

(54) Title of the invention : ANALYSIS OF POLYVINYL ALCOHOL PROPERTIES: DENSITY, VISCOSITY, AND ULTRASONIC VELOCITY AT VARIED TEMPERATURES AND CONCENTRATIONS

(51) International classification :G01N0009000000, G01N0029240000, G01N0029024000, G01N0029440000, G01N0029070000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a comprehensive exploration of the properties of Polyvinyl Alcohol (PVA) through the measurement of density, viscosity, and ultrasonic velocity at various temperatures and concentrations. Solid PVA with an approximate molecular weight of 140,000 was employed to prepare solutions by mixing known PVA volumes with fixed water volumes. Concentrations ranging from 0.3% to 1.0% (v/v) were examined. Acoustical parameters, including adiabatic compressibility and acoustic impedance, were calculated across different concentrations (ranging from 1.0% to 0.3%) and temperatures (ranging from 30°C to 65°C) at a frequency of 1 MHz using a variable path ultrasonic interferometer. The investigation offers insights into the effects of temperature and concentration on PVA's physical properties.

No. of Pages : 19 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/09/2023

(21) Application No.202311060472 A

(43) Publication Date : 06/10/2023

(54) Title of the invention : SYNTHESIS AND CHARACTERIZATION OF RARE EARTH IONS DOPED ZINC OXIDE NANOMATERIALS FOR ADVANCED APPLICATIONS

(51) International classification :H01S0003160000, C01G0009020000, H01S0003067000, A61K0041000000, H01S0003170000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the synthesis and characterization of rare earth ions doped Zinc Oxide (ZnO) nanomaterials with potential applications in advanced technologies. The method involves dissolving ZnCl2 and NaOH in an alcoholic medium, followed by the gradual addition of glycerol and a 0.1 mol % solution of rare earth ions (Nd3+). Stirring the solution for two hours yields ZnO nanoparticles, and size-selective precipitation controls their size (10-100 nm). X-ray diffraction analysis confirms enhanced crystallinity. Radiative properties, including spontaneous emission probability (A), branching ratio (ß), radiative lifetime (t), and stimulated emission cross-section (sp), are evaluated for laser transitions, particularly in the near-infrared region.

No. of Pages : 16 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/07/2023

(21) Application No.202311047806 A

(43) Publication Date : 11/08/2023

(54) Title of the invention : STUDY OF STRUCTURAL, MORPHOLOGICAL, OPTICAL AND FREQUENCY DEPENDENT ELECTRICAL PROPERTIES OF IRON (III) OXIDE NANOPOWDER

(51) International classification :B82Y 400000, C01G 490600, G06T 053000, G11B 057060, H01C 070000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(57) Abstract :

ABSTRACT The electrical properties of Iron (iii) Oxide (Fe2O3) were investigated by impedance spectroscopy over the frequency1 Hz to 10 MHz at room temperature. Scanning electron Microscopy (SEM) and Raman Spectroscopy has been done of Iron (iii) Oxide Nanopowder ranging 30-40 nm in diameter. The morphological analysis of Iron (iii) Oxide (Fe2O3) has been done by (SEM) informing the identical particles and diameters ranging 30-40 nm. Additional, the Raman shift deviation exhibit reliable peak found at ~143, 289, 498 and 629 cm-1 of Iron (iii) Oxide (Fe2O3) Nanopowder. The electrical studies of the Iron (iii) Oxide (Fe2O3) Nanopowder have been inspected in order to obtain the dependency of electrical parameters (mainly dielectric permittivity, loss, conductivity, loss-tangent, impedance, and admittance) on frequency. Considerable dependency of the conductivity on frequency which is achieved owing to significant change in particle diameter. It calculated that the electrical parameters of Iron (iii) Oxide (Fe2O3) Nanopowder have a great dependency on the frequency.

No. of Pages : 15 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/03/2023

(21) Application No.202311021565 A
(43) Publication Date : 16/06/2023

(54) Title of the invention : THE ROLE OF IOT, WIRELESS SENSOR NETWORKS (WSN) AND WIFI IN SMART MEDICAL APPLICATIONS

(51) International classification : H04L 67/1095, H04W 04/38(0), H04W 84/18(0), H04W 52/0200, H04W 84/18(0)
(86) International Application No : NA
Filing Date : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
Filing Date : NA
(62) Divisional to Application Number : NA
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(57) Abstract :
THE ROLE OF IOT, WIRELESS SENSOR NETWORKS (WSN) AND WIFI IN SMART MEDICAL APPLICATIONS Abstract: In the big data environment, we develop personalized information of college libraries based on big data from three aspects: the overall architecture of the system model, the functional model of the system, and the design of system interface modules according to the design principles and requirements of the personalized information service system of the university library Service system design. In terms of the functional design of the platform, the service platform is divided into four levels: accurate identification of user needs based on big data, personalized customized services based on artificial intelligence, academic research and discussion space based on integrated media, and fine-grained subject resource aggregation based on knowledge. On this basis, a centralized model of individualized services of university libraries including internal and external personnel, information resources, technology, services, processes, platforms, and environment has been constructed Artificial intelligence (AI) is one of the emerging trends and applications of computing in libraries. It involves programming computers to do things, which if done by humans, would be said to require intelligence. The ultimate promise of artificial intelligence in libraries is to develop computer systems or machines that think, behave, and in fact rival human intelligence, and this clearly has major implications on librarianship. The application of artificial intelligence in the library has become pervasive. They include expert systems for reference services, book reading and shelf-reading robots, virtual reality for immersive learning among others. Although the incorporation of artificial intelligence in libraries can be perceived to alienate librarians from their users, it will probably help libraries do more rather than taking over the jobs of librarians. It will enhance their services delivery. Artificial intelligence will greatly improve library operations and services and will upgrade and heighten the relevance of libraries in an ever-changing digital society In the near future, advanced healthcare systems will incorporate a variety of wireless devices and applications that utilize wireless communication technologies to facilitate the transfer of healthcare data. This concept, termed the Internet of Medical Things, is already materializing. Quality of Service and sufficient bandwidth are essential components of the digital transformation of healthcare. When healthcare systems adopt IoT, they can become far more intelligent, adaptable, and capable of cooperating with other systems. This study investigates the most recent developments in Internet of Things (IoT) communication protocols and technologies that can be utilized in smart healthcare applications. Low-power wireless technologies have been carefully explained in order to develop cost-effective and environmentally friendly IoT healthcare systems. Privacy and security are also cited as essential factors. Special focus is given to crowdsourcing and crowdsensing, which are consistently considered as quick ways to acquire big amounts of medical data. The IoMT study also addresses potential outcomes and outstanding challenges.

No. of Pages : 10 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/08/2023

(21) Application No.202311053271 A

(43) Publication Date : 01/09/2023

(54) Title of the invention : IOT-BASED AUTOMATION FOR THE PURPOSE OF MONITORING TEMPERATURE AND VIBRATION IN PROCESSES AND PREVENTING ACCIDENTS

(51) International classification :H04L0067120000, G06Q0010630000, G06Q0010060000, H04W0024040000, H04B0007195000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
IoT-based automation for the purpose of monitoring temperature and vibration in processes and preventing accidents ABSTRACT: The notion of the Internet of Things (IoT) has proven to be highly advantageous in various domains, enhancing the quality of our daily lives. Undoubtedly, condition monitoring is among the facilities offered in this sector. In contrast to routine maintenance, Internet of Things (IoT) systems that engage in ongoing control operations offer significant benefits to companies by providing advance notice of potential critical failures. It is of utmost importance to detect faulty bearings in power generating and power-consuming equipment before they reach a severe level of malfunction. In order to maintain a competitive edge within the contemporary market landscape, manufacturing enterprises are compelled to not only generate items of superior quality, but also execute this process within designated timeframes to avoid any disruptions within supply chains and prevent customer dissatisfaction. Regrettably, every facet of production encounters a substantial likelihood of equipment malfunction and unanticipated periods of inactivity, resulting in the inability to meet production and delivery deadlines. Nevertheless, manufacturers have the ability to mitigate or completely eradicate unforeseen periods of inactivity through the utilization of condition monitoring methodologies and Internet of Things (IoT) technologies.

No. of Pages : 12 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(21) Application No.202311078501 A

(22) Date of filing of Application :18/11/2023

(43) Publication Date : 29/12/2023

(54) Title of the invention : KNOWLEDGE DISSEMINATION GAPS IN AI-POWERED PSYCHOLOGICAL AND EDUCATIONAL ASSESSMENT AND DECISION-MAKING GUIDELINES

(51) International classification :G09B0007000000, G16H0050200000, G06Q0010060000, G06N0005040000, G06Q0010040000

(86) International Application No :NA
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(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention introduces a pioneering system and method to alleviate knowledge dissemination gaps in AI-powered psychological and educational assessments. By integrating an advanced AI-powered assessment module and a dynamic knowledge dissemination module employing cutting-edge natural language processing algorithms, the system proactively identifies, curates, and disseminates real-time guidelines. The user-friendly interface allows for easy navigation and customization, accommodating diverse user roles and contexts. The invention acts as a comprehensive decision support system, offering continuous updates and insights to professionals, educators, and stakeholders, thereby optimizing the utilization of AI technologies and significantly enhancing the quality and accuracy of decision-making in the fields of education and psychology.

No. of Pages : 16 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/11/2023

(21) Application No.202311079477 A
(43) Publication Date : 29/12/2023

(54) Title of the invention : EFFECTS OF CLITOREA TERNATEA LINN. AGAINST STREPTOZOTOCIN INDUCED DIABETES IN RATS

(51) International classification	:A61P0003100000, A61K0038440000, A61P0019020000, A61P0009100000, A61P0001000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
The present invention relates to pharmaceutical field, be specifically related to effects of Clitorea ternateaLinn.against Streptozotocin induced diabetes in rats. By measuring fasting serum glucose (FSG) using the enzymatic glucose oxidase or peroxidase technique, the antihyperglycemic effect of EECT was investigated in normal fasted, glucose-fed, hyperglycemic rats. Lipid peroxide/thiobarbituric acid reactive substances (TBARS), superoxide dismutase (SOD), total nitric oxide, catalase (CAT) and glutathione levels were assayed in diabetic rats. EECT (100 and 300 mg/kg) demonstrated noteworthy antihyperglycemic activity by reducing fasting glucose (FSG) in all hyperglycemic models, where FSG was only improved with EECT at a 300 mg/kg dose. Additionally, animals treated with EECT (100 and 300 mg/kg) showed a significant decrease in TBARS ($P<0.001$), nitric oxide and a significant increase in SOD, CAT and reduced glutathione levels in comparison to the diabetic control group.

No. of Pages : 13 No. of Claims : 6

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(14)

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/04/2023

(21) Application No.202311025377 A
(43) Publication Date : 19/05/2023

(54) Title of the invention : IN VITRO BACTERICIDAL EFFECTS OF CENTELLAASIATICA AND AZADIRACHTA INDICA AGAINST GOAT-ISOLATED PASTEURELLA MULTOCIDA

(51) International classification :A01N 650000, A01N 652600, A61K 365800, A61K 391020, A61Q 191000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/08/2023

(21) Application No.202311053022 A
(43) Publication Date : 01/09/2023

(54) Title of the invention : COMPUTATIONAL STUDIES AND SYNTHESIS OF NEW HETEROCYCLICS AS CNS AGENT

(51) International classification	:A61P0025220000, G16B0015300000, G16C0020500000, A61P0025200000, C07D0279280000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to design and synthesize novel phenothiazine derivatives in two series (4a-4j and P1-P5). The synthetic process involved chloroacetylation of phenothiazine, followed by sequential reactions with 4-amino acetophenone, substituted anilines, and substituted benzaldehydes. The compounds (4a-4j and P1-P5) were characterized using various techniques, and molecular docking studies indicated promising interactions with potential target receptors. Anxiolytic activity screening using the elevated plus maze model revealed compounds 4f, 4h, and P3 as having maximum anti-anxiety potency. The findings suggest that the designed phenothiazine derivatives hold potential as CNS-targeted therapeutic agents, with favorable chemical properties and docking scores.

No. of Pages : 23 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/01/2023

(21) Application No.202311001131 A
(43) Publication Date : 13/01/2023

(54) Title of the invention : ANALYSIS OF THERMAL PROPERTIES OF ORGANIC SOLAR CELL AT DIFFERENT DEVICE TEMPERATURES

(51) International classification :H01L0051420000, H01L0051000000, H01L0051440000, G06F0030330000, H01B0001120000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention relates to the organic solar cell has been simulated by GPVDM software at different device temperatures. This device model consists of mixture of P3HT and PCBM materials as active layer. In this device ITO is a transparent electrode, PEDOT: PSS is buffer layer and Al is a back electrode. In this study the electrical simulation has been done at different device temperatures 270K, 290K, 320K, and 345K. It is observed that J-V characteristics are affected by the device temperature. We obtain maximum efficiency 5.2% at temperature 345K with active layer thickness 250 nm.

No. of Pages : 11 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/02/2023

(21) Application No.202311009975 A

(43) Publication Date : 24/02/2023

(54) Title of the invention : ACOUSTICAL PARAMETERS OF AQUEOUS SOLUTION OF POLYVINYL ALCOHOL

(51) International classification	:A61P0003100000, C08L0029040000, A61P0037020000, A61P0035000000, D06M0015333000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to method to evaluate the effect of different concentration of polyvinyl alcohol and different temperature on acoustical parameters of polyvinyl alcohol. Solution prepared by adding known weight of polyvinyl alcohol of molecular weight 140,000 to fixed volume of water and stirring under reflex, until a clear solution obtained. The viscosity of polyvinyl alcohol is high at higher concentration of polyvinyl alcohol and low at higher temperature. The invention discloses increase in intermolecular free length with increasing temperature and decrease in intermolecular free length with increasing concentration of polyvinyl alcohol. The invention shows lower relaxation time at higher temperature and higher relaxation time at higher concentration of polyvinyl alcohol. The study also shows the lower ultrasonic velocity at higher temperature and higher ultrasonic velocity at higher concentration of polyvinyl alcohol. The invention describes the association between polyvinyl alcohol and water because of interaction between solute and solvent.

No. of Pages : 24 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/03/2023

(21) Application No.202311020428 A

(43) Publication Date : 19/05/2023

(54) Title of the invention : STRUCTURAL, MORPHOLOGY AND OPTICAL PROPERTIES OF CDS: ND3+ NANOPARTICLES BY SIMPLE CHEMICAL PRECIPITATION METHOD

(51) International classification	:B01J 350000, C01F 111800, C02F 015200, D21H 177000, H04N 053780
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
STRUCTURAL, MORPHOLOGY AND OPTICAL PROPERTIES OF CDS: ND3+ NANOPARTICLES BY SIMPLE CHEMICAL PRECIPITATION METHOD ABSTRACT The present invention relates to the structural, morphology and optical properties of CdS: Nd3+ nanoparticles by simple chemical precipitation method. The invention provides the synthesis and characterization of cadmium sulphate with Nd3+ ions nanoparticles suitable for semiconductor application using simple chemical precipitation and manufacturable process. The average particle size of the CdS: Nd3+ nanoparticles is 100-50 nm. The optical physical parameters calculated as refractive index, dielectric constant, optical dielectric constant, reflection loss at different concentration were estimated by using the absorption spectrum at room temperature. The invention discloses the synthesis of the solution using cadmium nitrate tetrahydrate Cd (NO3)2.4H2O) and a diethylene glycol, ethanol (C2H5OH) as source of cadmium and sodium sulfide (Na2S). Nd3+ ions are present in different concentrations of 0.1, 0.2 and 0.3 mole%.

No. of Pages : 17 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/05/2023

(21) Application No.202311035987 A

(43) Publication Date : 30/06/2023

(54) Title of the invention : THERMOMAGNETIC CONVECTION PERMEATED WITH SUSPENDED DUST PARTICLES THROUGH A DARCY-BRINKMAN POROUS MEDIUM

(51) International classification	:C09K 032200, G01N 150800, H01H 712400, H01H 714000, H01H 717400
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
THERMOMAGNETIC CONVECTION PERMEATED WITH SUSPENDED DUST PARTICLES THROUGH A DARCY-BRINKMAN POROUS MEDIUM ABSTRACT The present invention relates to an thermomagnetic convection permeated with suspended dust particles through a darcy-brinkman porous medium. The system (100) comprises of an analyzing module, a measurement module, and an outcome module. The analyzing module is used to analyze the thermo-convective instability of a system. It includes perturbation technique, Darcy-Brinkman model, measurement module, kinematic viscosity, medium porosity, permeability, darcy-brinkman number parameter, alfvén velocity, suspended particle parameter, and outcome module. The outcome module is configured to determine how the growth rate of disturbances depends on various factors. [Figure 1]

No. of Pages : 20 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/12/2022

(21) Application No.202311000912 A
(43) Publication Date : 03/02/2023

(54) Title of the invention : FORMULATION DEVELOPMENT AND OPTIMIZATION OF ORAL DISPERSIBLE TABLETS OF ANTIHYPERTENSIVE DRUG

(51) International classification	:A61K0009200000, A61K0009000000, A61K0009700000, A61K0009280000, G06Q0010040000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
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(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
The present invention relates to the Formulation Development and Optimization of Oral Dispersible Tablets of Antihypertensive drug. Formulation and optimization of tablets were done by using the computer optimization technique. Optimization of ODTs was done by considering the concentration of binder (HPMC) and super disintegrant (Kyron T 314) as independent variables whereas Wetting time (WT), friability (Fr), and amount of drug release in 15 min (Q15) as dependent variables. Response surface plots and contour plots were drawn, and optimum formulations were selected by overlay plot prepared by design expert software The overlay plot was designed by keeping the value of WT (11 –30.22 sec), Fr (0.70982 – 1), and Q15 (93.81 – 99.39 %). Validation of optimization study indicated a very high degree of prognostic ability of response surface methodology. Hence, optimized formulation batches were formulated by proper balancing of concentration of independent variables to attain desired dependent response using 32 CCD.

No. of Pages : 22 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/08/2023

(21) Application No.202311053270 A

(43) Publication Date : 01/09/2023

(54) Title of the invention : IOT AND MACHINE LEARNING -BASED MONITORING SYSTEMS FOR WEATHER, SOIL, EARTHQUAKES, AND AIR POLLUTION

(51) International classification :G06N0020000000, G06Q0050020000, A01B0079000000, G06Q00100600000, G16Y0030000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
IoT and Machine Learning -based Monitoring Systems for Weather, Soil, Earthquakes, and Air Pollution ABSTRACT: The proliferation of the Internet of Things (IoT) has expedited the process of change in various industries, such as environmental monitoring and agricultural. According to projections, it is anticipated that the global population will reach 9.7 billion by the year 2050. This suggests that there will be an increased need for food and natural resources to meet the needs of the growing population. As per the United Nations, there is a pressing need to augment the world food supply by 70 percent in order to adequately address the escalating demand resulting from population growth. The Internet of Things (IoT) has a multitude of prospects for augmenting agricultural practices, mitigating wastage, and monitoring worldwide patterns. The utilization of precision farming and environmental monitoring, exemplified by the Internet of Things, has the potential to address the increasing need for food and resources while concurrently mitigating their ecological consequences. The Internet of Things (IoT) possesses the capacity to fundamentally transform the agricultural sector and enable comprehensive worldwide surveillance. Precision agriculture, animal care, and environmental concern are associated with a multitude of advantages. This observation indicates that the Internet of Things holds promising prospects in these domains. By persisting in the advancement and utilization of these technologies, there is a possibility of foreseeing a future that is characterized by enhanced sustainability, efficiency, and productivity. We possess a high level of enthusiasm over the matter.

No. of Pages : 12 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/08/2022

(21) Application No.202211049253 A

(43) Publication Date : 02/09/2022

(54) Title of the invention : A METHOD FOR APPROCHING STUDY ON CELEBRITY AND NONCELEBRITY APPROVE ADVERTISEMENTS

(51) International classification	:G06Q0030020000, H04N0021258000, G16H0010200000, G06F0001321800, G09B0007020000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present invention relates to a method (100) for approaching study on celebrity and non-celebrity approve advertisements. The method (100) comprising a memory unit, a processor and a display unit. The memory unit is configured to store machine-readable instruction. The processor is operably connected with the memory unit, the processor obtains the machine-readable instructions from the memory unit, and is configured by the machine instruction. The processor is configured to generate (102) questionnaire surveys for approaching study on celebrity and non-celebrity approve advertisements; convert (104) the questionnaire surveys into primary information data and secondary information data; collection (106) of information data using questionnaire surveys; analysis (108) of the collected data; compare (110) the collected data; and generate (112) conclusion using analyzed and compared data information. The display unit is operationally connected with the memory unit and processor. The display unit is configured to provide user interface.

No. of Pages : 13 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/08/2022

(21) Application No.202211049322 A
(43) Publication Date : 02/09/2022

(54) Title of the invention : A NOVEL APPROACH FOR TRANSACTION MANAGEMENT IN HETEROGENEOUS DISTRIBUTED REAL-TIME REPLICATED DATABASE SYSTEMS

(51) International classification	:H04L0029080000, G06F0009500000, G06F0016270000, H04L0012911000, H04L0012240000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Cloud computing is popular with end consumers. IT organizations need cloud computing. Cloud computing offers SaaS, IaaS, and PaaS. Instead of using their own resources for data storage and management, companies started using cloud computing. Most companies use cloud storage for data (e.g. Amazon S3). Cloud computing rents computer resources, bills pay-as-you-go, and multiplexes users on the same physical infrastructure. Cloud consumers have the illusion of limitless computer resources so they can scale utilization. Transactions are entered as heterogeneous files and exported as cloud storage files. Cloud storage updates and deletes user data. We're building a safe, energy-efficient, scalable transaction management solution for heterogeneous distributed databases. We handle transactions by connecting with numerous database systems, assigning computer resources, and protecting user data. Variable workloads affect throughput, CPU usage, scheduling time, and response time. Comparing CBS, DPRA, and SLA-Aware ERM (SLA).

No. of Pages : 12 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/08/2022

(21) Application No.202211049321 A
(43) Publication Date : 02/09/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE AND SUPPLY CHAIN MANAGEMENT- ASSESSMENT OF THE PRESENT AND FUTURE ROLE PLAYED BY AI IN THE SUPPLY CHAIN PROCESS

(51) International classification :G06Q0010060000, G06Q0010080000, G06Q0030020000, A61B0005000000, G06F0008710000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
This invention seeks to identify the contributions of artificial intelligence (AI) to supply chain management (SCM) through a systematic review of the existing literature. To address the current scientific gap of AI in SCM, this invention aimed to determine the current and potential AI techniques that can enhance both the study and practice of SCM. Gaps in the literature that need to be addressed through scientific research were also identified. More specifically, the following four aspects were covered: (1) the most prevalent AI techniques in SCM; (2) the potential AI techniques for employment in SCM; (3) the current AI-improved SCM subfields; and (4) the subfields that have high potential to be enhanced by AI. A specific set of inclusion and exclusion criteria are used to identify and examine papers from four SCM fields: logistics, marketing, supply chain, and production. This invention provides insights through systematic analysis and synthesis.

No. of Pages : 12 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/08/2022

(21) Application No.202211049250 A
(43) Publication Date : 02/09/2022

(54) Title of the invention : USING ARTIFICIAL INTELLIGENCE COMPARING THE CONTENTMENT OF HUMAN RESOURCE IN A POST-LAYOFF SETTING

(51) International classification :G06Q0010100000, G06K0009620000, G06Q0010060000, G06Q0040000000, G06N0003040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention relates to artificial intelligence, comparing the contentment of human resources and other workers in a post-layoff setting. A method (100) comprising a survey dataset collected by employees, a pre-processing unit configured to make data compatible, artificial intelligence is configured to train the method and analyzing results of contentment of human resources and other workers. The method (100) saves time by completely removing the conventional manual through the use of artificial intelligence.

No. of Pages : 7 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/08/2022

(21) Application No.202211049121 A
(43) Publication Date : 02/09/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE- BASED HUMAN RESOURCE EVALUATION AND SELECTION DECISION SUPPORT SYSTEM

(51) International classification :G06Q0010100000, G06Q0010060000, A61B0005000000, G06F0016270000, B01D0061100000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The present invention relates to artificial intelligence-based human resource evaluation and selection decision support system. The system is based on five essential parts: the human resource system, Organization, employee's personal details, a decision supporting evaluation and selection unit and the cloud. A decision supporting evaluation and selection unit configured to compare stored with present data. A human resource system configured to transmit updated information to employ personal details and to Organization. A cloud is configured to store and retrieve data. An employee's personal details are configured to store personal information. An Organization configured to collect updated data and processing information. This system (100)helps the managers to make correct and timely decisions.

No. of Pages : 8 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/08/2022

(21) Application No.202211049364 A
(43) Publication Date : 02/09/2022

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF LOW POWER MULTIPLIERS USING POWER EFFICIENT ADDER BLOCKS

(51) International classification :G06K0007100000, B29C0065180000, G06T0005500000, G06Q0030020000, A61K0048000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The invention relates to design and implementation of low power multipliers using power efficient adder blocks. The design of digital multipliers is very common and already many such designs for low power digital multiplier have been proposed. The multiplier block is designed using Tanner tool 180 nm Complementary Metal Oxide Semiconductor (CMOS) technology. In this paper, an attempt has been made to optimize the performance of an array multiplier which consumes low power. The multiplier has been designed and simulated by using various adder blocks. The work includes the design of basic gates, half adder and full adder, operated with different operating voltages. The used logic styles in our proposed CMOS logic design of the multiplier are 14T full adder, 16T full adder, SERF full adder, and CPL full adder and TG full adder. The power, delay analysis has been computed and compared for the different used logic styles.

No. of Pages : 27 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/09/2022

(21) Application No.202221054901 A

(43) Publication Date : 07/10/2022

(54) Title of the invention : ANTIFERTILITY AND ESTROGENIC EFFECTS OF SIDA ACUTA ROOT ON EXPERIMENTAL ANIMAL MODELS

(51) International classification :A61K0036185000, A61K0031567000, A61K0031715000, A61K0047400000, A23L0033105000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ANTIFERTILITY AND ESTROGENIC EFFECTS OF SIDA ACUTA ROOT ON EXPERIMENTAL ANIMAL MODELS Herbal medications have been used for centuries in traditional Indian medicine to reduce fertility in several regions. Even if herbal medications have been used for a considerable amount of time, their effectiveness and safety cannot be guaranteed by this fact alone. The purpose of this research was to conduct effectiveness and safety investigations on Sida acuta root, an antifertility plant widely used in Asian countries. It was shown that the methanolic extract of the root has antifertility properties in female rats. The root of the plant was found to include alkaloids, flavanoids, sterols, and glycosides as secondary metabolites. It was shown that the extract was more effective in reducing the number of litters born (50 percent) and causing considerable anti-implantation activity (3.29) than the control in postcoital testing. An antiestrogenic activity of 265.16 mg/100g b/w was seen in immature ovariectomized rats when the extract was administered in combination with Ethinyl estradiol alone (120.66 mg/100g b/w). The methanolic extract from Sida acuta was shown to have antifertility effects and was found to be safe when used at the effective dosages found in this research.

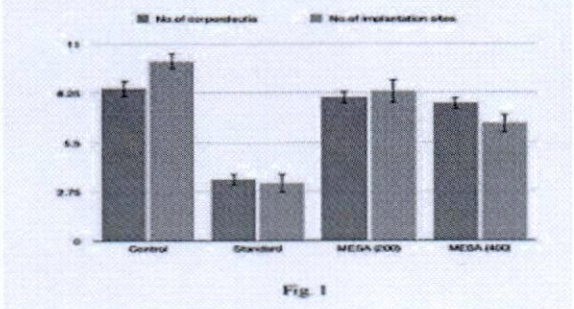


Fig. 1

No. of Pages : 23 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/09/2022

(21) Application No.202211054900 A

(43) Publication Date : 07/10/2022

(54) Title of the invention : SYSTEMATIC DEVELOPMENT OF TRANSETHOSOMAL GEL SYSTEM OF BERBERINE-HYDROCHLORIDE FOR EFFECTIVE TREATMENT OF DERMATOPHYTOSIS AGAINST TRICHOPHYTONRUBRUM: EX-VIVO, IN-VITRO AND IN-VIVO ASSESSMENT

(51) International classification	:A61K0009000000, A61K0009060000, A61Q0019000000, A61K0009510000, A61K0031417800
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Dermatophytosis is the most common dermatological disorder around the world nowadays. Many drugs are available in the market for the treatment of dermatophytosis but they had limited success due to the stratum corneum barrier, antifungal resistance, drug permeation, and retention of drugs in skin layers, etc. Thus, there are constant needs for new topical compounds that are effective against dermatophytosis. Berberine-hydrochloride is an attractive candidate to become an antifungal drug and by using nanotechnology it achieves deeper penetration in skin layers with enhanced permeability through the stratum corneum. Berberine-hydrochloride loaded transethosomal gels were fabricated using the hot homogenization method, followed by incorporation of transethosomes into gel-based system using carbopol-934. Transethosomal gel was characterized by physicochemical properties, in vitro drug release, ex-vivo permeation studies, CLSM visualization, antifungal activity, histopathological evaluation and dermatokinetic study. Berberine-hydrochloride loaded transethosomes were seemed to spherical in shape and found in range between 200-300 nm. Berberine-hydrochloride loaded transethosomal gel formulation are also shows controlled ex-vivo permeation of berberine-hydrochloride over 24 hr through excised rat's skin and CLSM confirmed deeper penetration into skin layers. The in vivo study revealed that transethosomal gel had a healing effect on the skin of Wistar rats infected with Trichophyton rubrum and was better than luliconazole cream. The histopathological evaluation confirmed its safety and dermatokinetic study showed transethosomal gel superiority over marketed cream. Incorporation of berberine hydrochloride loaded transethosomal nanosystems into the gel has the potential to enhance antifungal activity and permeation through transdermal drug delivery.

No. of Pages : 30 No. of Claims : 1

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/09/2022

(21) Application No.202211056083 A

(43) Publication Date : 14/10/2022

(54) Title of the invention : MATHEMATICAL MODELLING TO EXAMINE THE POLLUTANT LEVELS IN GANGA AND YAMUNA RIVERS

(51) International classification	:C02F0001000000, C02F0003320000, G01N0033180000, F03B0017060000, C02F0003340000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present invention relates to a modelling method for the estimation of pollutants in the river basins. The Water pollution is the biggest environmental problems on the earth. The quality of water flowing in the river which being polluted by water by sewage and animal waste and can cause diseases like gastroenteritis, salmonella infection, dysentery, hepatitis .According to water pollution OD and BOD are decreased and the water quality in terms of OD and BOD is not fit for designated best uses in the India. The water of the rivers is not healthy for human's body, biological environments and ecological systems. In the present invention comparision between the Ganga and Yamuna rivers on waters pollution, by using the developed mathematical model. The paper concludes with multidimensional recommendations for the improvement of water quality of both the Rivers.

No. of Pages : 11 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(21) Application No.202211056746 A

(22) Date of filing of Application :03/10/2022

(43) Publication Date : 14/10/2022

(54) Title of the invention : ENHANCING TALENT PERFORMANCE MANAGEMENT IN ORGANIZATIONS BY USING BI(DATA

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(51) International classification :G06Q0010060000, G06Q0010100000, G06F0016280000, G06F0011360000, G06F0008200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :
This invention completes the performance management database design and B/S architectural system development by analyzing the human resource system needs of a company. Struts2, Spring, Hibernate, and Extjs frameworks, based on VC framework theory, are used to design the technical framework of the system and to implement the basic features of the talent performance management system. This includes a look at how big data can be used to improve enterprise performance management, as well as an overview of each module's design and how it was developed. The database outline design begins with the entity-relationship and analyses the data entities and accompanying relationships that are required for the system function to be implemented. Finally, a portion of the system code and test results are supplied, and the tests demonstrate the usefulness of the proposed management optimization strategy.

No. of Pages : 9 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/10/2022

(21) Application No.202211057992 A

(43) Publication Date : 21/10/2022

(54) Title of the invention : NOVEL COMPOUND 2-(2,3-DIPHENYL-1H-INDOL-1-YL)BENZOTHIAZOLE AND ITS METHOD OF SYNTHESIS

(51) International classification	:B82B00003000000, C07C0045680000, B01J0019180000, C07D0417120000, C07D0277820000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention belongs to the field of pharmaceutical science. More, particularly the invention pertains to synthesis novel compound novel compound 2-(2,3-diphenyl-1H-indol-1-yl)benzothiazole. The novel process involved charging a Schleck tube equipped with a stir-bar with N-phenylbenzo[d]thiazol-2-amine (0.05 g, 0.22mmol), diphenylacetylene (0.039 g, 0.22 mmol), & DCE as a solvent, purging the reaction tube with argon, adding [Ru(p-cymene)Cl2]2 (0.007 g, 0.01mmol), AgSbF6 (0.015 g, 0.04 mmol), Cu(OAc)2 (0.04 g, 0.22mmol) to the reaction mixture after 5-10 min followed by argon purging, stirring the mixture at 120oC for 12 hrs, cooling the mixture at room temperature, passing the reaction mixture through celite bed and concentrated under reduced pressure and purifying the mixture by silica gel chromatography (EtOAc: Hexane) to yield the desired product.

No. of Pages : 14 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/10/2022

(21) Application No.202211058685 A

(43) Publication Date : 21/10/2022

(54) Title of the invention : ISOLATION AND IDENTIFICATION ENDOPHYTIC FUNGUS FROM LEAVES OF NOTHAPODYTES NIMMONIANA AND INVESTIGATION OF CAMPTOTHECIN (CPT): AN ANTICANCER PLANT BIOMOLECULE

(51) International classification :C12N0001140000, A61P0035000000, A61P0017000000, A61P0031000000, A61P0011000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present study aims to isolate and identify the endophytic fungus from the leaves of Nothapodytes nimmoniana plant. In the present study, the mentioned plant Nothapodytes nimmoniana produces good amount of CPT which is use in the treatment of cancer. The identified endophytic fungus Stemphylium botryosum (S-1) and Endophytic fungus Colletotrichum spaethianum (S-2) helped to produce more amount of CPT.

No. of Pages : 30 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/10/2022

(21) Application No.202211059652 A

(43) Publication Date : 28/10/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE-BASED DATA AUTHENTICATION FOR CYBER SECURITY OF HOTEL'S PROPERTY MANAGEMENT SYSTEM USING DEEP LEARNING

(51) International classification :G06N0003080000, G06N0003040000, G06Q0050120000, H04W0012060090, G06F0021550000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the field of a hotel management. More specifically, to the artificial intelligence-based data authentication for cyber security of hotel's property management system using deep learning. The artificial intelligence-based data authentication for cyber security of hotel's property management system using deep learning includes a communication interface for sending data over a network, a secure exchange server hosted by an intermediate business entity, a storage unit configured for storing, by the secure exchange server, data relating to a user login authentication for the user of a second business entity, a plurality of communication devices, each comprising a wireless transceiver and forming the source or destination, a non-transitory computer readable storage media, stored therein, computer program code, one or more microcontroller operatively coupled to the memory and configured to execute instructions in the computer program code, an artificial intelligence-based intrusion detection unit for real-time network traffic data analysis for determining whether an external source has altered the operation of the network, and an artificial neural network based computational module for user authentication for hotel property by using neural network.

No. of Pages : 15 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/11/2022

(21) Application No.202211066813 A

(43) Publication Date : 02/12/2022

(54) Title of the invention : TANSHINONE FOR THE TREATMENT OF UTERINE FIBROIDS: MOLECULAR DOCKING, SIMULATION, AND DENSITY FUNCTIONAL THEORY INVESTIGATIONS

(51) International classification	:A61K0031352000, A61P0015000000, G16C0010000000, G16B0015300000, G16C0020500000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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8)DR. AJAY SHARMA

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(57) Abstract :

Uterine fibroids have increased by a factor of two over the past two decades as women have shifted their priorities from raising a family to advancing their careers. This has led to later marriages and later pregnancy, in addition to increased stress from work and other aspects of modern life. 40 to 50 percent of women with uterine fibroids don't even know they have it. It is estimated that between 25 and 35 percent of women wait until the symptoms have worsened before seeing a gynaecologist for help with things like extended heavy menstrual bleeding and severe pelvic pain. These fibroids can be reduced in size through a number of methods, including as medical or surgical intervention. Progesterone is a crucial hormone that restores the endometrium and controls uterine function. A targeted drug can be developed by blocking the human progesterone receptor. In the current investigation, 25 plant-based molecules are selected and docked onto the 1E3K and 2OVH progesterone receptors. Thansinone, Equol, Fisetin, Genistein, Myrecetin, and Apigenin do well in docking interactions with the 1E3K protein. Among the several compounds tested for docking interactions with the 2OVH protein, (-)-Epicatechin 3-gallate, (-)-Epigallocatechin 3-gallate, Eriodictyol, Genistein, Myricetol, Quercentin, and Tanshinone performed the best. The synthetic progesterone inhibitor Norethindrone Acetate is used to evaluate the docking outcomes. The best compound, thansinone, was analysed using molecular modelling and DFT. The RMSD for the 1E3K protein-ligand complex ranged from 0.10 to 0.42 angstroms, with an average of 0.21 angstroms and a standard deviation of 0.06, while the RMSD for the 2OVH protein-ligand complex ranged from 0.08 to 0.42 angstroms, with an average of 0.20 angstroms and a standard deviation of 0.06. The DFT calculation reveals a sizable energy gap (E), proving the substance's stability.

No. of Pages : 34 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/12/2022

(21) Application No.202211069352 A

(43) Publication Date : 30/12/2022

(54) Title of the invention : DEEP LEARNING BASED TECHNIQUE INTEGRATED WITH TIME SERIES DATA FOR ACCURATE PREDICTION OF PLANT GROWTH AND YIELD

(51) International classification :G06N0003080000, G06N0003040000, G06Q0010040000, G16H0050200000, C12N0015820000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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7)Dr.V. BALAJI
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9)MAJEED HAZZAA NOMAAN
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(57) Abstract :
Deep Learning based Technique Integrated with Time Series Data for Accurate Prediction of Plant Growth and Yield is the proposed invention. The invention aims at implementing algorithms of deep learning-based technique integrated with time series data. The invention focuses on predicting the accurate crop yield and growth.

No. of Pages : 13 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/08/2022

(21) Application No.202211046560 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : NOVEL METHOD TO STUDY ATTRIBUTES OF FARM YARD MANURE FOR PADDLE OPERATED MECHANICAL APPLICATOR

(51) International classification :A01K0029000000, A01K0001010000, C12Q0001685800, C12N0015090000, A01C0003020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The invention provides for an easy to user-friendly method for studying the attributes of farm yard manure. Further, the invention provides for an efficient, user-friendly and easy to perform method for studying farm yard manure attributes for paddle operated mechanical operator. Furthermore, the invention provides for a method for studying the physical and frictional attributes of farm yard manure through developed machine.

No. of Pages : 13 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/08/2022

(21) Application No.202211046717 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : FACTORS AFFECTING EMISSIONS FROM DIESEL FUEL AND WATER-IN-DIESEL EMULSION

(51) International classification :F02B0003060000, C10L0010020000, F02M0025022000, F02M0037240000, F02B0047020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to preparation of water in diesel emulsion using different POE-SE surfactants together with variable water proportion and to evaluate the effect of the exhaust emission of the diesel engine. To compare the effect of addition of POE-SE surfactant in preparing water diesel emulsion. The test fuel had a composition of water 5–15% w/ w, diesel 94–84% w/w, and surfactant 1% w/w. A simultaneous reduction of NOx, % w/w CO, and % w/w HC levels was obtained with the use of 1% surfactant. The Results showed that the Combination of surfactants effectively reduced the NOx emissions at low water contents. Among all the surfactants used, span 20 was observed to reduce all the emissions more efficiently as that of other surfactants.

No. of Pages : 13 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/08/2022

(21) Application No.202211046640 A

(43) Publication Date : 26/08/2022

(54) Title of the invention : DEVELOPMENT & CHARACTERIZATION OF A SELF-ASSEMBLED SMART MATERIAL FOR OXYGEN SENSITIVITY

(51) International classification	:G01N0021640000, G01N0033543000, G01N0033520000, G01N0021800000, G01N0021330000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to that the design of an immobilization process for an oxygen-sensitive ruthenium-based fluorescent dye with applications in microscale biological, chemical and environmental sensing. The dye immobilization system consists of pre-mixing the dye with an electrostatically charged polyion in solution that acts as a binding matrix to attach the dye molecules to a surface-charged substrate. The substrate surface charge is reversed, and another polyion in solution is used to reverse the surface charge to make possible further dye-polyion adsorption. The dye-polyion-coated substrates were characterized using QCM, absorbance spectrophotometry, fluorescence spectroscopy, SEM imaging and oxygen sensitivity testing to determine the characteristics and functionality of the immobilized dye layers. The dye immobilization technique was demonstrated to be stable and repeatable and calibration of the oxygen sensitivity was also performed. The dye exhibited characteristic Stern-Volmer oxygen sensitivity, with unprecedented sensing resolution over previous optical oxygen sensing schemes.

No. of Pages : 20 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/08/2022

(21) Application No.202211046631 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : NOVEL METHOD TO CHECK PERFORMANCE OF WHEAT CULTIVARS UNDER DIFFERENT FERTILIY LEVELS

(51) International classification :C12Q0001688600, A61B0017000000, G01N0033500000, C12Q0001685800, F24H0009200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
The invention provides for a user friendly method for testing the performance of wheat cultivars under different fertility levels. Further, the invention provides for an efficient, user-friendly and easy to perform method for testing the performance of wheat cultivars under different fertility levels in late sown irrigated conditions.

No. of Pages : 13 No. of Claims : 7

REGISTRAR
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/08/2022

(21) Application No.202211047046 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : ISOLATION OF FIXED OIL FROM FRUIT OF EHRETIA ACUMINATA R. BR FOR SUSTAINABLE TOMORROW

(51) International classification :G01N0030020000, F02C0007060000, F04B0053200000, F04B0017040000, F01D0025180000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention relates to the extraction of fixed oil from the fruit of Ehretia acuminate and evaluation of the chemical composition. It also includes the process of extraction of fixed oil from the fruit. The prepared fruit fixed oil is evaluated for the chemical components by using the GC-MS analysis. The prepared fruit fixed oil is evaluated for various biological activites such as antioxidant activity, antidiabetic activity, anti-inflammatory activity antihemolytic activity, photoprotactive activity, antimicrobial activity and statistical analysis.

No. of Pages : 20 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/08/2022

(21) Application No.202211046872 A

(43) Publication Date : 26/08/2022

(54) Title of the invention : ANTIOXIDANT AND HEPATOPROTECTIVE COMPOSITION AGAINST PARACETAMOL AND AZITHROMYCIN-INDUCED LIVER DAMAGE

(51) International classification :A61K0036800000, A61K0031167000, A61K0038380000, A61K0038210000, A61K0036680000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to antioxidant and hepatoprotective composition against Paracetamol and Azithromycin-induced liver damage in rats comprising therapeutically effective amount of Picrorhiza kurroa Rhizome. The administration of Picrorhizakurroa extract at concentrations of 200 and 400 mg/kg for 7 days resulted in a significant ($p < 0.05$) reduction of paracetamol induced elevation of serum enzyme markers, comparable to the effect of silymarin as the control group. Antioxidant assay revealed that the ethanol extractof Picrorhizakurroa exhibited free radical scavenging activity with IC50 values of 48.62 respectively. Chronic treatment of etanolic extract of Picrorhizakurroa rhizome significantly and dose-dependently attenuated the liver toxicity by normalizing the biochemical factors and no gross histopathological changes were observed in liver of rats. Pretreatment of the rats with the crude extract and solvent fractions of Picrorhizakurroa significantly reduced ALP ($p< 0.001$), ALT at all the administered doses compared to the paracetamol and azithroycin treated group ($p<0.05$).

No. of Pages : 27 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/08/2022

(21) Application No.202211047054 A
(43) Publication Date : 18/11/2022

(54) Title of the invention : STUDY OF MOLECULAR INTERACTIONS IN POLYVINYL CHLORIDE SOLUTIONS

(51) International classification :G01N0029024000, G01N0009000000, G01N0029320000, G01N0029036000, G01N0011160000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to that the experimental values of density, viscosity and ultrasonic velocity of polyvinylchloride in dimethylformamide is measured at different concentration and temperatures at 1 MHz frequency. Using these data different acoustical parameters have been calculated to understand molecular interactions between solute and solvent. The study helps to understand the polymer and solvent interaction and the effect of concentration and temperature on various parameters have been discussed.

No. of Pages : 21 No. of Claims : 4

REGISTRAR
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/08/2022

(21) Application No.202211047005 A

(43) Publication Date : 26/08/2022

(54) Title of the invention : SIMULATION MODELLING TO SOLVE WAITING LINE PROBLEMS IN SHEET METAL AUTOMOBILE COMPONENT OF MANUFACTURING INDUSTRY

(51) International classification :G06Q0030020000, G07C0011000000, G07G0001000000, H04N0019147000, H04M0003523000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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7)Mr. Arvind Chaudhary

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(57) Abstract :

The present invention relates to the sheet metal automobile component manufacturing industry is facing a problem of high waiting time of dies in the Queue and they are paying penalty as waiting cost. At present there are three service points. If we increase the number of service points, the waiting time and hence waiting cost will obviously decrease, but service cost, on the other hand will increase. It shows that we have two opposite costs and we can have a trade-off between these two costs to find the optimum number of service points, which in fact, is the objective of this thesis that will be dealt with later on. Therefore, the company is interested in knowing the optimum number of service point so that waiting cost can be reduced which in turn will result in the reduction of risk of losing the customers.

No. of Pages : 19 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/08/2022

(21) Application No.202211046923 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : CHARACTERISTICS OF TI BASED BIOMATERIAL AS ORTHOPEDIC IMPLANTS

(51) International classification	:C23C0028000000, C23C0014480000, A61L0027300000, A61F0002000000, A61L0031120000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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9)Mr. Ayush Saxena
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(57) Abstract :
The present invention relates to the focuses mainly on titanium-based alloys, even though there exist biomaterials made up of ceramics, polymers and composite materials. The paper discusses the biomechanical compatibility of many metallic materials and it brings out the overall superiority of Ti based alloys, even though it is costlier. As it is well known that a good biomaterial should possess the fundamental properties such as better mechanical and biological compatibility and enhanced wear and corrosion resistance in biological environment, the inuence of alloy chemistry, thermomechanical processing and surface condition on these properties. In addition, this also discusses in detail the various surface modication techniques to achieve superior biocompatibility, higher wear and corrosion resistance. Overall, an attempt has been made to bring out the current scenario of Ti based materials for biomedical applications.

No. of Pages : 23 No. of Claims : 5

REGISTRAR
IFTM UNIVERSITY
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/08/2022

(21) Application No.202211047326 A
(43) Publication Date : 02/09/2022

(54) Title of the invention : A METHOD FOR ANALYSING EFFECT OF HUMAN RESOURCE MANAGEMENT PRACTICES ON EMPLOYEE PERFORMANCE

(51) International classification :G06Q0030020000, G06Q0010100000, G16H0010200000, G06Q0010060000, G01D0004000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a method (100) for analyzing the effect of human resource management practices on employee performance. The method (100) comprises a memory unit, a processing and a display unit. The memory unit is configured to store machine language. The processing unit is operationally connected with a memory unit configured to read machine language stored in the memory unit. The processing unit is configured to generate questionnaire surveys about the HRM and performance to understand the impact quantitative approach; convert the questionnaire surveys into primary information data and secondary information data; analyze primary information data and secondary information data; generate analyzed results to identify the impact of HR practices on employee performance. The display unit is operationally connected with the processing unit, configured to provide a user interface and display the generated result.

No. of Pages : 13 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/08/2022

(21) Application No.202211047433 A

(43) Publication Date : 02/09/2022

(54) Title of the invention : A SYSTEM FOR EXPERIMENTAL INVESTIGATION BY REVERSE ENGINEERING TOOL FOR RECOVERING DESIGN OF ARTIFACTS

(51) International classification :G05B0019050000, G06F0021140000, G06F0008100000, G06F0008740000, G06T0017200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a system (100) for experimental investigation by Reverse Engineering Tool for Recovering Design of Artifacts. The system (100) comprises an source code file unit comprises of java code file, a model unit is configured to retrieve artifacts, relation and components, a mapping unit is configured to map the model through relation, function, type and variable and a design artifacts comprises of class, sequence, activity and use case diagram. The system (100) employed an algorithm that reverse-engineered the java code to produce class diagrams, use case diagrams, and activity diagrams. The system (100) overcomes the limitations of traditional systems.

No. of Pages : 9 No. of Claims : 4

REGISTRAR
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/08/2022

(21) Application No.202211047434 A

(43) Publication Date : 02/09/2022

(54) Title of the invention : SURFACE MODIFICATION AND DETERMINATION OF OPTIMAL SURFACE TEXTURE FOR MEDICAL IMPLANTS

(51) International classification :A61F0002300000, A61L0027500000, A61F0002440000, A61L0027060000, A61L0031020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the ß-Ti implant was subjected to PMEDM for surface modification to produce a novel biomimetic nanoporous bioceramic surface with the aim to improve the corrosion resistance, wear resistance, fatigue performance and bioactivity of the ß-Ti-based implant. Orthopedic implants are used as artificial organs to restore the functionality of natural organs in the body. Metallic biomaterials, such as stainless steel, cobalt chromium, and titanium and its alloys have been used as medical implants. Among these, Ti and its alloys have recently gained increasing attention for application in the biomedical field owing to their superior biocompatibility and excellent mechanical properties. Biomedical industries evinced interest on the application of ß-phase titanium alloy for fabrication of implants and instruments due to their superior biocompatibility and excellent mechanical properties such as low young's modulus, high fatigue performance, high corrosion resistance and low density as compared with other metallic biomaterials.

No. of Pages : 14 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/08/2022

(21) Application No.202211047462 A

(43) Publication Date : 02/09/2022

(54) Title of the invention : STUDY ON FINANCIAL IMPACT OF AIR POLLUTION AND NEED FOR ENVIRONMENT MANAGEMENT OF INDUSTRIAL AREA

(51) International classification	:G01N0015060000, G06Q0050260000, G06Q0010040000, B01D0046000000, A61K0009000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present invention relates to India's economic growth over the past few years has raised the prospect of eliminating extensive poverty within a generation. According to the World Air Quality Report of 2019, India ranked 5 out of 98 countries in 2019 based on weighted average PM2.5 concentration levels, behind Bangladesh, and Afghanistan. Twenty-one of the world's 30 cities with the worst air pollution are in India. New Delhi has the poorest air quality among cities globally, with PM2.5 concentration levels nearly ten times the WHO target. PM2.5 levels have remained high over the last five years. Industrial air pollution has emerged as an acute problem in recent years because of it there are detrimental effects on human health, economic and living conditions of the people. The present study is conducted in three different sites in industrial area identify the economic impact of air pollution.

No. of Pages : 11 No. of Claims : 2

REGISTRAR
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/08/2022

(21) Application No.202211047703 A
(43) Publication Date : 02/09/2022

(54) Title of the invention : ECONOMIC IMPACT OF AIR POLLUTION AND NEED FOR ENVIRONMENT MANAGEMENT IN GAJRAULA CITY

(51) International classification	:G01N0015060000, A23L0033100000, A61P0035000000, C05D0001000000, G06Q0050260000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to India's economic growth over the past few years has raised the prospect of eliminating extensive poverty within a generation. PM2.5 levels have remained high over the last five years. Industrial air pollution has emerged as an acute problem in recent years because of it there are detrimental effects on human health, economic and living conditions of the people. The monthly mean concentration of PM10 (RSPM) ranged between 32-386ugm-2, which was higher than the permissible limit of 100ugm-1 as per National Ambient Air Quality Standards. The significant correlation was found between metals Zn-Pb (r =0.998), Ni-Cd (r =0.998), Fe-Cu (r =0.997) and Ni-Cd (r =0.995) and non-significant correlation between Zn-Al (r =0.502), Pb-Al (r =0.476) and Fe-Ni (r = 0.450). This study shows that the large number of industries and high density of vehicles are responsible for enhanced concentration of heavy metals in the Area, Gajraula.

No. of Pages : 12 No. of Claims : 2

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/08/2022

(21) Application No.202211047943 A
(43) Publication Date : 02/09/2022

(54) Title of the invention : A SYSTEM FOR HUMAN RESOURCE MANAGEMENT MODELING IN SIMULATED ENVIRONMENT

(51) International classification :G06Q0010100000, G06Q0010060000, G06F0030200000, G06Q0050200000, G06Q0010040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention relates to a system (100) for human resource management modeling in simulated environment. The system (100) comprises a strategic planning unit, a smooth recruitment and selection process unit, a planned training and development unit, an attendance module, a tactical performance appraisal unit, a cloud center database, a data matching analysis module, a processing unit and a display unit. The system (100) for human resource management modeling in simulated environment operates with ease and consistently delivers superior performance. The processing unit is configured to control the function perform by the strategic planning unit, smooth recruitment and selection process unit, planned training and development unit, attendance module, cloud center database and data matching analysis module. The system (100) for human resource management modeling in simulated environment has a straightforward modeling process, an easy solution, high prediction accuracy, verifiability, and correction is chosen.

No. of Pages : 11 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/08/2022

(21) Application No.202211046269 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : METHODS OF SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL EVALUATION OF CYCLO-OCTAPEPTIDE, CYCLOGOSSINE-B

(51) International classification :C12Q0001020000, C12Q0001180000, A61K0031704000, C07K0007640000, C07K0011020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention relates the synthesis of cyclic octapeptide, Cyclogossine-B which is previously isolated from latex of Jatropha gossypifolia, accomplished through coupling of tetra-peptide fragment (Boc-L-Gly-L-Gly-L-Trp-L-Leu-OMe) (72) with another tetra-peptide fragment (Boc-L-Ala-L-Ala-L-Ile-L-Leu-OMe) (73), followed by cyclization of the linear octa-peptide unit under alkaline condition. The formation of newly synthesized cyclic compound was confirmed by means of spectral techniques including FT-IR, 1H-NMR, Mass spectroscopy along with elemental analyses. Cyclogossine-B was subjected for biological screening to evaluate antimicrobial and anticancer activities. The anti-bacterial activity was carried out by using Gram +ve bacteria (B. subtilis, S. epidermidis) and Gram -ve bacteria (E. coli, P. aeruginosa, S. aureus and K. pneumonia). The anti-fungal activity was performed by using fungal strains like C. albicans, A. niger, T. mentagrophytes and M. audouinii. Similarly, the cytotoxic activity of synthesized cyclic peptide was carried out through MTT assay using Doxorubicin as standard drug on HCT116 and B16F10 cell lines. The cytotoxic effect was evaluated by determining the percentage inhibition of growth of HCT116 and B16F10 cell-lines. Then CTC50 (Concentration of test drug needed to inhibit cell growth by 50%) values were calculated by graphical extrapolation method. Different concentration of test, control and standard drug (120-7.5 µg/mL) were used for the cytotoxicity study. It was observed that this cyclic peptide exhibited significant antimicrobial and cytotoxic activity against cancer cell lines.

No. of Pages : 25 No. of Claims : 9

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/08/2022

(21) Application No.202211046251 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : SRF AND EPLL THEORY FOR INVERTER CONTROL IN A WIND-DIESEL BASED POWER GENERATION

(51) International classification	:H02J0003380000, H02J0003180000, H02J0003010000, F03D0009000000, H02P0009000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to SRF and EPLL theory for inverter control in a wind-diesel based power generation. A wind turbine is connected with permanent magnet synchronous generator (PMSG) and is configured to convert kinetic energy of wind to electrical energy. A PMSG is configured to induced current through magnet. A VSC comprising both SRF and EPLL techniques used for balancing the load, compensate for reactive power, get rid of harmonics, and control the voltage at the point of common coupling (PCC) when the load was not linear. EPLL is a better way to deal with harmonics than the SRF method.

No. of Pages : 10 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/08/2022

(21) Application No.202211046250 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : EMISSION TRAITS OF DIESEL ENGINE AT VARIOUS INJECTION TIMING USING BLENDS OF SESAME OIL BIODIESEL

(51) International classification :F02B0003060000, C10L0001020000, F02D0041400000, C10L0010020000, C10G0003000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the evaluation of emission traits of diesel engine at various injection timing using blends of Sesame oil Biodiesel. The Sesame oil biodiesel is blended with B50.The prepared niodiesel biodiesel is evaluated for various emission parameters such as Carbon monoxide, hydro carbon, and smoke opacity. The emission performance of sesame oil bio diesel were done by using Graphical evaluation by comparing with the diesel. The sesame oil biodiesel is evaluated for emission parameters at various loads such as 0%, 20%, 40%, 60%, 80%, 100%. wherein the CO emissions at loads of 0%, 20%, 40%, 60%, 80%, 100% are 0.08, 0.07, 0.058, 0.048, 0.045, 0.06 % Volume. Results showed that the Sesame oil biodiesel is suitable as fuel for a diesel engine. Its B50 blend at 24° BTDC proved potentially suitable for diesel engine. Alone it can be used as diesel engine without any modifications.

No. of Pages : 12 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/08/2022

(21) Application No.202211046329 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : NOVEL METHOD TO CHECK EFFECT OF SOWING AND IRRIGATION LEVELS ON WHEAT

(51) International classification :A01N0043540000, C07K0016460000, C12Q0001685800, A61K0031513000, C12Q0001680900
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The invention provides for an eco-friendly method for testing the efficacy of sowing methods and irrigation levels on the growth of wheat. Further, the invention provides for an efficient, user-friendly and easy to perform method for testing the efficacy of sowing methods and irrigation levels on the growth of wheat. Furthermore, the invention provides for a method that provides best treatment combination to increase grain yield of wheat.

No. of Pages : 18 No. of Claims : 8

REGISTRAR
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/08/2022

(21) Application No.202211046464 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : A METHOD OF POSSIBLE COMPUTATIONAL INSIGHTS AND A NOVEL ATOMIC-LEVEL VIEWPOINT ON THE EGFR INHIBITION OF EPICATHECHIN GALLATE IN LUNG CANCER ACTIVITY

(51) International classification :G16B0005000000, G16C0020500000, G16B0015000000, A61K0031353000, G16C0010000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The Present Invention says that in the United States, lung cancer is the biggest cause of cancer-related mortality, ranking in second only to colon cancer. As of 2020, 247,270 persons had been diagnosed with lung cancer, with a total of 116,930 of those cases being women and 130,340 of those being males. EGFR is a type of tyrosine kinase receptor which promotes uncontrolled cell division. In some types of cancer cells, genetic mutation (EGFR) promotes the EGFR proteins at greater levels than normal. By inhibiting EGFR may be useful for preventing or reducing the growth of lung cancer against NSCLC. In this study 16 phyto-chemicals were selected from IMPPAT, a manually curated database. The crystal structure of EGFR kinase domain (2ITY and 3WTO) was downloaded from Protein Data Bank. These derivatives' binding affinities were predicted using Glide, which indicated that EGFR-kinase inhibitors had good binding energies, ranging from -10.49 to -3. 643 kcal/mol. Olmutinib and Osimertinib are used as standard. All the compounds were examined for their ADMET characteristics using SwissDock. The docking results were validated by molecular dynamics simulations to show the durability of hydrogen bonding interactions. Results reveals that Epigallocatechin Gallate (EGCG) had superior docking score when compared with both the standard drugs. The possible Mechanism of action of EGCG in treatment of cancer by modifying cell signalling pathways is also explored.

No. of Pages : 43 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/08/2022

(21) Application No.202211045418 A

(43) Publication Date : 19/08/2022

(54) Title of the invention : DEVELOPMENT OF FUNCTIONALIZED SILVER NANOPARTICLES FROM ALLAMANDA NERIIFOLIA

(51) International classification :B82Y0030000000, B82Y0040000000, A61K0033380000, A61L0015460000, G01N0021350000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :

The present invention relates to the preparation of silver Nanoparticles by using the flower extract of Allamanda neriifolia and evaluation of their anti-cytotoxic activity. The characterization of prepared nanoparticles were done by using the UV, FTIR, and SEM analysis.The nanoparticles were prepared by using the eco- friendly method, and involves the rich plethora of plant extracts and a simplified synthetic approach in the UV-Vis cuvette, which enables immediate monitoring of the reaction progress. The UV–Vis spectroscopy & FTIR affirmed the formation of silver nanoparticles. SEM image showed spherical shape with an average particle size of less than 50 nm. The prepared biosynthesized silver nanopartilces were evaluated anticyto toxic activity by using the MC- 7 Cell lines.

No. of Pages : 17 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/08/2022

(21) Application No.202211045365 A
(43) Publication Date : 19/08/2022

(54) Title of the invention : EXPANSIVE SOIL MODIFICATION BY THE APPLICATION OF WASTE MATERIALS

(51) International classification	:E02D0001020000, E01C0003000000, C05D0003020000, C04B0018040000, D01H0011000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
The present invention discloses the impact of waste industrial materials such as marble dust, fly ash on the subgrade attributes of Expansive soil. The laboratory investigation is concluded to assess the effect of waste industrial materials addition on the engineering properties and shrink-swell behavior of stabilized expansive soils. Atterberg limits, OMC and MDD, California Bearing Ratio (CBR), swelling pressure tests are performed on natural and proposed soil samples. Measure the results obtained of the natural and treated samples, the CBR increases by 250% (when 30% marble dust and fly ash are added) and the swelling reduction of 58% is found, depending on additive content. The results conclusion shows that the modification of expansive soils by fly ash and marble dust admixture is successful and more economical.

No. of Pages : 28 No. of Claims : 10

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159

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/08/2022

(21) Application No.202211045530 A

(43) Publication Date : 26/08/2022

(54) Title of the invention : High Performance Computing (HPC) Integration of IoT and Big Data Analytics: Design and Experimental Evaluation of an HPDA Framework for eScience at Scale

(51) International classification :A61K0035583000, G06F0016280000, G06F0016250000, G06F0009540000, G06F0016220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
The purpose of this study is to introduce Ophidia, a big data analytics research effort that aims to help the accessing, analysing, and mining of scientific data that is based on n-dimensional arrays. Ophidia is a platform that enhances the capabilities of existing relational database system implementations, in particular MySQL, to perform efficient data analysis operations on scientific array-based data. This is accomplished by extending relational database primitives as well as data types. It makes use of well-known scientific numerical libraries, a distributed and hierarchical storage model, and a parallel software framework based on the Message Passing Interface so that it can run from single tasks to more complex dataflows. All of these are done in order to make it possible to perform big data analytics. Within the framework of the international Coupled Model Intercomparison Project Phase 5, the most recent version of the Ophidia platform is currently undergoing testing using NetCDF data that was produced by climate scientists working for the CMCC (CMIP5). (C) 2013 Authors of the Work Printed and distributed by Elsevier B.V. The organisers of the 2013 International Conference on Computational Science are responsible for both the selection process and the review by other researchers.

No. of Pages : 12 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/08/2022

(21) Application No.202211045379 A
(43) Publication Date : 19/08/2022

(54) Title of the invention : A SYSTEM AND METHOD FOR CONTRAST ENHANCEMENT OF COLOR IMAGES USING OPTIMIZED FUZZY INTENSIFICATION

(51) International classification	:G06T0005000000, G09G0003360000, G06N0007040000, A61M0005310000, H04N0001409000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates a method for contrast enhancement of color images using optimized fuzzy intensification. The method comprising steps: Step 1: Extract the Red, Green, and Blue channels separately and normalize each channel for better input understanding; Step 2: Define a variable for bright and dark intensities for each normalized channel; Step 3: Add membership function for input defined variable; Step 4: Define the output variable and find out the membership function; Step 5: using parameter and fuzzy inference system an appropriate intensification operator for the given image is calculated for each channel to observe the pixels of the output image; Step 6: obtain output. The system (100) comprises an image dataset unit, an image input unit, an image color channel unit, a defined input variable for bright & dark unit, an add membership functions unit, an output variable and membership functions unit, a evaluate FIS unit; an output.

No. of Pages : 13 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/08/2022

(21) Application No.202211045806 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : ATTITUDE AND SKILLS OF STUDENT PSYCHOLOGY IN RELATION TO ENTREPRENEURSHIP

(51) International classification	:G06Q0050200000, G06Q0040000000, G06Q0010060000, G09B0019000000, G06Q0010100000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Research on approaches to entrepreneurship education is still in its infancy. Most studies aim to describe entrepreneurship courses, discuss the content of good entrepreneurship education, or assess the economic impacts of courses by comparing participants and non-participants. Some empirical studies confirm that entrepreneurship education courses or programs in colleges have a positive impact on the attractiveness and viability of new ventures. Business activities play a very important role in promoting economic and social development. For these reasons, in recent decades, entrepreneurship issues have received attention from many academics and policy makers. With the growth of mass management education universities in India, the problem of employing university graduates has become more acute. One sees the logic in developing entrepreneurial skills among arts and science graduates. However, as many studies have revealed, not everyone can become an entrepreneur. There are certain psychological characteristics, sociocultural, demographic and economic factors, perceptions of the external environment, etc. that influence an individual's entrepreneurial aspirations and abilities. Hence, there is a need to identify candidates who can become entrepreneurs after receiving the necessary inputs and training.

No. of Pages : 28 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/08/2022

(21) Application No.202211045956 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : CANCER DETECTION IN LUNGS USING BIG DATA

(51) International classification	:G16H0010600000, G16H0040630000, G16H0050200000, G16H0050300000, G16H0070600000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
It is supplied both with a system and a technique for screening for lung cancer. The system consists of a database that stores structured patient information for a patient population and a domain knowledge base that stores information about lung cancer; an individual patient record; and a processor that is responsible for analyzing the patient record with data from the database to determine whether or not a patient has indications of lung cancer. The method includes the steps of inputting patient-specific data into a patient record; performing at least one lung cancer screening procedure on a patient, and inputting at least one result from at least one procedure into the patient record in a structured format. Finally, the method includes the step of analyzing the patient record with a domain knowledge base to determine whether or not the patient has indications of lung cancer.

No. of Pages : 21 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/08/2022

(21) Application No.202211046072 A

(43) Publication Date : 26/08/2022

(54) Title of the invention : DEVELOPMENT AND CHARACTERIZATION OF NATURAL FIBER/FILLER REINFORCED POLYLACTIC ACID BIOCOMPOSITES

(51) International classification :A61K0036480000, A61L0027160000, G01N0003560000, C08K0007060000, C08G0059500000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to that evaluation of physical and mechanical properties of Bauhinia Vahlii fiber reinforced epoxy composites filled with different bast fibers and rice husk filler. The comparison between the various set of fabricated composites has also been discussed. This reports the influence of different reinforcement on the sliding wear properties of bauhinia-vahlii epoxy composites. Also, it presents the comparison with those of similar weight percentage of other bast fibers-based epoxy composites. The test conditions are set using the Taguchi method. The ANOVA technique is applied to determine the significance of all selected control factors on the specific wear rate of composites under dry sliding conditions. Therefore, each part describing the sliding wear performance of epoxy composites filled with different reinforcement materials.

No. of Pages : 26 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/08/2022

(21) Application No.202211045996 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : NOVEL COMPOSITE REFERENCE STANDARD FOR THE DIAGNOSIS OF GENITAL TUBERCULOSIS IN INFERTILE WOMEN

(51) International classification	:G01N0033680000, G01N0033530000, G01N0033569000, G16H0050200000, A61B0005020000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
The present invention relates to the detection of Tuberculosis, in particular to the detection method for Mycobacterium Tuberculosis in the women's genital organs. The method involves the diagnosis of Genital Tuberculosis in infertile women by using the Novel Composite Reference Standard. Female genital tuberculosis (FGTB) can be asymptomatic or even masquerade as other gynecological conditions. Conventional methods of FGTB diagnosis include various imaging, bacteriological, molecular, and pathological techniques that are only positive in a small percentage of patients, leaving many cases with undiagnosed condition. In the absence of a perfect diagnostic method, novel composite reference standards (CRSs) have been advocated in this study. Total of 86 women with primary and secondary infertility were included in the study, and subjected to bacteriological, pathological and radiological examination for the diagnosis of FGTB. Results were evaluated statistically for concordance of the diagnostic tests to the CRS by sensitivity and specificity.

No. of Pages : 18 No. of Claims : 7

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MORADABAD

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/08/2022

(21) Application No.202211046231 A
(43) Publication Date : 26/08/2022

(54) Title of the invention : TLC FINGERS OF PUTRANJIVA ROXBURGHII WALL. SEED EXTRACTS AND PREPARATION THEREOF

(51) International classification	:G01N0030020000, C11B0001100000, C07K0014000000, C09K0015340000, A23L0033105000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to a process of extraction of seed extract from Putranjiva roxburghii Wall. comprising the step of crushing the air dried seeds mechanically to make coarse powder, extracting the coarse powdered seeds using solvents Petroleum Ether 60°-80°, Ethyl Acetate and 30% Hydro alcohol by Soxhlet apparatus successively, concentrating the Petroleum Ether Extract (PEE), Ethyl Acetate Extract (EAE) and Hydroalcohalic Extract (HAE) in a rotatory evaporator to recover the solvents, concentrating the extracts to dryness in vacuum oven at temperature not exceeding 50 °C, and storing the extracts in desiccators, wherein said Petroleum Ether Extract, Ethyl Acetate Extract and Hydroalcohalic Extract yields are 2.0, 5.8 and 7.9% respectively. Further, TLC fingerprints of Putranjiva roxburghii Wall. seeds extracts is made wherein the Rf value of fingerprints are of PEE, EAE and HAE are 0.22, 0.62 and 0.04 respectively.

No. of Pages : 19 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/08/2022

(21) Application No.202211046268 A

(43) Publication Date : 26/08/2022

(54) Title of the invention : SYNTHESIS, CHARACTERIZATION AND EVALUATION OF INTEGERRIMIDE-A AS POTENTIAL ANTIMICROBIAL AND ANTICANCER AGENT

(51) International classification :A61K0038000000, C07K0007640000, C12Q0001020000, C12Q0001180000, A61K0031704000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention reports the synthesis of cyclic heptapeptide, Integerrimide-A which was previously isolated from latex of Jatropha integerrima, accomplished through coupling of tetra-peptide fragment (Boc-Gly-L-Leu-L-Leu-L-Leu-OMe) with tri-peptide fragment (L-Thr-L-Pro-L-Trp-OMe) followed by cyclization of the linear heptapeptide unit under alkaline condition. The formation of newly synthesized cyclic compound was confirmed by means of spectral techniques including FT-IR, 1H-NMR, Mass spectroscopy along with elemental analyses. Integerrimide-A was subjected for biological screening to evaluate antimicrobial and anticancer activities. The anti-bacterial activity was carried out by using Gram +ve bacteria (B. subtilis, S. epidermidis) and Gram -ve bacteria (E. coli, P. aeruginosa, S. aureus and K. pneumonia). The anti-fungal activity was performed by using fungal strains like C. albicans, A. niger, T. mentagrophytes and M. audouinii. Similarly, the cytotoxic activity of synthesized cyclic peptide was carried out through MTT assay using Doxorubicin as standard drug on HCT116 and B16F10 cell lines. The cytotoxic effect was evaluated by determining the percentage inhibition of growth of HCT116 and B16F10 cell-lines. Then CTC50 (Concentration of test drug needed to inhibit cell growth by 50%) values were calculated by graphical extrapolation method. Different concentration of test, control and standard drug (120-7.5 µg/mL) were used for the cytotoxicity study. It was observed that this cyclic peptide exhibited significant antimicrobial and cytotoxic activity against cancer cell lines.

No. of Pages : 28 No. of Claims : 2

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/08/2022

(21) Application No.202211044526 A
(43) Publication Date : 19/08/2022

(54) Title of the invention : SYNTHESIS & BIOLOGICAL EVALUATION OF SOME 5-SUBSTITUTED PHENOTHIAZINE BASED THIAZOLIDINE-2,4-DIONE DERIVATIVES

(51) International classification	:C07D0279220000, A61K0031541500, C07D0417120000, A61K0031550000, C07D0279280000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to phenothiazine abbreviated PTZ is an organic compound that has the formula S(C6H4)2NH and is related to the heterocyclic compounds. It contains two benzenes rings linked in a tricyclic system through nitrogen and sulfur atoms. Phenothiazine derivatives having amino alkyl side chain connected to the nitrogen atom of heterocyclic unit. Research into phenothiazine and its derivatives has remained unabated due to the wide range of application of this class of compounds as drugs, pesticides, dyes, industrial antioxidants, thermal stabilizers etc. Phenothiazine the parent compound of the large number of medicinal compounds and thiazine dyes has been the subject of intensive study in industries. The main objective of this research work was to combine two moieties phenothiazine & thiazolidine-2,4-dione to prepare more potent antidiabetic derivatives. Phenothiazine & thiazolidine-2,4-dione entity are very interesting components in terms of their biological properties, such as antifungal, antibacterial, and anticonvulsant activities.

No. of Pages : 14 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211005401 A

(19) INDIA

(22) Date of filing of Application :01/02/2022 (43) Publication Date : 11/02/2022

(54) Title of the invention : OPTIMIZATION AND CHARACTERIZATION OF SELF NANO EMULSIFYING DRUG DELIVERY SYSTEM LOADED WITH 18-ß GLYCERRHETINIC ACID

(51) International classification	:A61K0009107000, A61K0009480000, A61K0047140000, B01F0013000000, A61K0009510000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

The present invention relates to prepare, optimize and evaluate self-nano emulsifying drug delivery system (SNEDDS) containing 18- ß glycerrhetinic acid which enhances the dissolution profile or bioavailability. Formulations were prepared by using pseudo ternary phase diagram and Box-Behnken experimental design was used to optimize the different formulations. Optimized formulations were characterized for self-emulsifying time, globule size, zeta potential, and drug release. The mean droplet size and PDI of the optimized

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/08/2022

(21) Application No.202211044525 A
(43) Publication Date : 19/08/2022

(54) Title of the invention : FORMULATION AND EVALUATION OF FLOATING TABLET OF HEENGVASTAK CHURNA EXTRACT

(51) International classification :A61K0009000000, A61K0009200000, A61K0009280000, A61K0047140000, A61K0031138000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the preparation of floating tablets of heengvastakvati were developed with an aim to prolong its gastric residence time and increase the bioavailability of drug. Rapid gastrointestinal transit could result in incomplete drug release from the drug delivery system above the absorption zone leading to diminished efficacy of the administered dose. Formulation was optimized on the basis of floating time and in vitro drug release. The results showed that the floating lag time for optimized formulation was found to be 30 second with about 97.32 % of total drug release within 3 hours. The vitro release profiles of drug from the formulation could be best expressed zero order with highest linearity r2 = 0.9943. It was concluded that the gastroretentive drug delivery system can be developed for HeengvastakVati containing Piperine to increase the residence time of the drug in the stomach and thereby increasing bioavailability.

No. of Pages : 14 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/08/2022

(21) Application No.202211044739 A
(43) Publication Date : 19/08/2022

(54) Title of the invention : ANTI-HYPERLIPIDEMIC INVESTIGATIONS OF LITCHI CHINENSIS IN RATS

(51) International classification :A61K0036770000, A01N0065000000, A23L0033105000, A61K0008970000, A61K0031220000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the preparation of extract of litchi chinensis which is a plant with a wide variety of ethnic medicinal uses, hence it is planned to screen anti-hyperlipidemic action by taking model- Triton-X-100 induced hyperlipidemia in rats. The ethanolic extract of pericarp of this plant was used to evaluate on above mentioned model. Anti-hyperlipidemic study was performed on model: Triton-X-100 method taking Atorvastatin as a standard and by using oral low dose high dose i.e., 200mg/kg and 400mg/kg of extract. The low and high doses of extract were found significant in reducing total cholesterol and triglycerides against different models of hyperlipidemia induced in rats. Both the doses of extract provide protection against atherosclerosis. The result provides strong evidence to support that the ethanolic extract of pericarp of Litchi chinensis possess Antihyperlipidemic activity as well as it is entirely safe for longer duration of treatment.

No. of Pages : 13 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/08/2022

(21) Application No.202211044966 A
(43) Publication Date : 02/09/2022

(54) Title of the invention : Novel compound (E)-N-(2-(3, 4-dihydroisoquinolin-2(1H)- yl) benzylidene)-2,6 dimethylaniline and synthesis thereof

(51) International classification :C07D0493040000, C07C0067080000, C07C0303400000, C07D0307920000, C07D0333540000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The invention relates to a method for efficiently and rapidly synthesizing (E)-N-(2-(3, 4-dihydroisoquinolin-2(1H)-yl) benzylidene)-2,6 dimethylaniline from aminobenzaldehyde and aromatic amine under the mild reaction condition by using an environmental-friendly catalyst. The method comprises the step of synthesizing (E)-N-(2-(3, 4-dihydroisoquinolin-2(1H)-yl) benzylidene)-2,6 dimethylaniline by taking equimolar amount of aminobenzaldehyde (0.5 mmol) and aromatic amine (0.5 mmol) and dissolved in ethanol and few drops of glacial acetic acid is added then the reaction mixture is refluxed for 8 hours in oil bath. The crude product is dried under vacuum and washed 2-3 times with water to remove acetic acid. The pure crystalline product is recovered by recrystallization with absolute ethanol with 65% yield; the method is simple in operation and high in yield, and has mild conditions of a catalytic reaction system and a broad industrial application prospect.

No. of Pages : 15 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/08/2022

(21) Application No.202211045021 A
(43) Publication Date : 19/08/2022

(54) Title of the invention : FORMULATION AND EVALUATION OF ANTI-INFLAMMATORY GEL OF ALHAGI CAMELORUM

(51) International classification	:A61K0036480000, A61P0029000000, G01N0033150000, C07J0063000000, C07H0001080000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to the anti-inflammatory effects of Alhagi camelorum. Most of the diseases are caused by a continuous swelling, including cancer. There is hence a need to neutralise inflammation. Alhagi camelorum, a medicinal plant, has been historically utilised as a remedy in Ayurveda and other systems of folk medicine. Thus, several techniques were utilised by Wister rats to examine Alhagi camelorum anti-inflammatory properties. The plant material was crushed into a coarse powder in a grinder after drying and stored at a room temperature for further investigation. The powdered plant material of Alhagi cameloram was subjected to successive solvent extraction (hexane, petroleum ether, chloroform, and methanol) in soxlet extraction method. Different extracts were analysed using a traditional procedure to evaluate the various physicochemical properties.

No. of Pages : 22 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/08/2022

(21) Application No.202211045047 A

(43) Publication Date : 19/08/2022

(54) Title of the invention : SEISMIC ANALYSIS OF MULTI STORIED REINFORCED CONCRETE RC FRAMED STRUCTURE WITH AND WITHOUT DIAPHRAGM DISCONTINUITY

(51) International classification :E04H0009020000, G01V0001300000, E02D0027340000, E04B0001980000, E04H0001040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the field of the Reinforced Concrete (RC) Framed Structure.The invention more particularly relates to the Seismic Analysis of Multi Storied Reinforced (RC) Concrete Framed Structure with and without Diaphragm Discontinuity. These days high rise multi storied structures are quiet prominent. These types of structures, should not only be designed for aesthetic point of view but also must be designed to resist earthquake forces which are subjected on these structures. These earthquake forces acting on the structures are also known as seismic forces. Due to architectural purposes, some buildings, have openings, provided in them, this creates structural discontinuities in the building. These openings or discontinuities can change the load transfer path of the structures which may cause significant change in the building behavior, under the application of the seismic forces. In present invention pushover analysis is carried out to study the behavior of the building in case of architectural opening for staircase or cut outs etc which results in discontinuity in the structure.

No. of Pages : 25 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/08/2022

(21) Application No.202211044994 A
(43) Publication Date : 19/08/2022

(54) Title of the invention : TURMERIC LEAF DISEASE DETECTION USING CNN MODEL AND IOT

(51) International classification :G06K0009000000, A61K0036906600, G06N0003040000, G06K0009620000, G06T0007000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
During its growing phase, turmeric is susceptible to a number of different ailments. If its infections are not detected in the early stages, this might lead to a decrease in output or possibly the failure of the crop. The correct diagnosis of any problems affecting the turmeric plant is the first and most crucial step. In order to simplify the process of identifying illnesses that might affect turmeric plant leaves, a single-phase detection model has been developed as an alternative to the usual method's use of numerous processes, such as image pre-processing, feature extraction, and feature classification. An improved version of the YOLOV3-tiny model, which is based on deep learning, has been offered as a method for increasing the accuracy of illness diagnosis, including turmeric. This approach makes use of a residual network structure that is built on the convolutional neural network in certain layers in order to increase detection accuracy more so than YOLOV3-tiny. When compared to the YOLOV3-Tiny model, the findings demonstrate that the suggested model's detection accuracy is superior to that of the latter. It allows diagnosis of turmeric leaf diseases to be carried out quickly and accurately by anybody. The Improved YOLOV3-Tiny algorithm is used in this invention to identify key turmeric illnesses such as leaf spot, leaf blotch, and rhizome rot. These diseases are caused by fungal infections. The training and testing photographs are taken at different times of the day and night, and they are analyzed using a number of different YOLO approaches as well as Faster R-CNN using the VGG16 model. In addition, the results of the experiments show that the Cycle-GAN augmentation process on the turmeric leaf dataset supports much for improving detection accuracy for smaller datasets, and the proposed model has an advantage over existing traditional models in that it has high detection accuracy and a fast recognition speed. Both of these advantages can be compared to one another.

No. of Pages : 21 No. of Claims : 4

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Application Details	
APPLICATION NUMBER	202211045061
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/08/2022
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TITLE OF INVENTION	BIOMEDICAL INTERVENTIONS WITH INTEGRATION OF IMAGE REGISTRATIONS AND CALCULATIONS TO PREDICT THE LIFE SPAN OF HUMANS SUFFERING FROM BRAIN TUMOURS
FIELD OF INVENTION	CHEMICAL
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	26/08/2022

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Application Status

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/08/2022

(21) Application No.202211045076 A

(43) Publication Date : 19/08/2022

(54) Title of the invention : LPG CYLINDER LEAKAGE COVER

(51) International classification :B65D0001020000, C10L0003120000, C12N0009640000, F02M0021020000, A61K0036899000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
Cooking gas connections in India have increased 76 per cent from 140 million in 2014 to 247 million now. The Pradhan Mantri Ujjwala Yojana (PMUY) is a major factor behind this change. However, this has also triggered a rise in the number of accidents with liquefied petroleum gas (LPG, the chemical name for cooking gas) in these years. Parliament's panel on petroleum and natural gas has registered its concern on this. In 2017-18, LPG blasts claimed at least 260 lives. In the first six months of the current financial year, 2018-19, a little over 100 deaths were reported. A major reason for the accidents was lack of awareness on safe usage among new consumers. For solving the problem of LPG leakage, an airtight tarpaulin cover can be used.

No. of Pages : 7 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/08/2022

(21) Application No.202211045345 A
(43) Publication Date : 19/08/2022

(54) Title of the invention : Herbal composition for inflammatory disorders

(51) International classification	:C07C0209840000, C07D0417140000, B08B0003020000, C07C0045780000, A61P0031180000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
The present invention belongs to the field of pharmaceutical science. More, particularly the invention pertains to synthesis and analgesic activity of novel compound N-(4-(diphenylamino) thiazol-2-yl)-2-(4-ethylphenoxy) acetamide. The novel process involved refluxing 2-chloro-N-(4-(diphenylamino) thiazol-2-yl) acetamide and 4-ethyl phenol for 23 min dry acetone in attendance of anhydrous K2CO3 and KI. The unreacted phenol is removed from the final product by treating the substance with 10% aqueous solution of sodium carbonate. The compounds is then filtered and washed thoroughly with water, dried and recrystallized from ethanol.

No. of Pages : 12 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/08/2022

(21) Application No.202211044183 A
(43) Publication Date : 12/08/2022

(54) Title of the invention : FORMULATION DEVELOPMENT & EVALUATION OF PANTOPRAZOLE DELAYED RELEASE TABLET

(51) International classification :A61K0009200000, A61K0009280000, A61K0009500000, A61K0031443900, G06F0008410000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the formulation development and evaluation of pantoprazole delayed release tablet. Pantaprazole delayed release tablets were prepared by using the Wet granulation method. Wet granulation method was planned using different concentration of binder (starch paste) along with two different solvent water and IPA. The development Process of Delayed release pantaprazole tablets was carried out in three stages. Optimization of alkaline stabilizer was performed in first stage, Seal coating weight gain was optimized in second stage and in final stage optimization and comparative evaluation of enteric coating polymer was performed. Based on % CDR it was concluded that as percentage of enteric coating was increase on seal coated tablet it retards drug release during first two time point. Optimum percentage enteric coating was selected based on highest f2 value. It was concluded that 12 % enteric coating on seal coated tablet gave best results.

No. of Pages : 26 No. of Claims : 4

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TENT APPLICATION PUBLICATION
NDIA
) Date of filing of Application :02/08/2022

(21) Application No.202211044231 A

(43) Publication Date : 19/08/2022

(54) Title of the invention : DEVELOPMENT AND EVALUATION OF FAST DISINTEGRATING TABLET OF CEFIXIME HYDROCHLORIDE

(51) International classification	:A61K0009000000, A61K0009200000, A61K0031546000, A61K0047320000, A61K0009160000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Recent developments in fast disintegrating tablets have brought convenience in dosing to pediatric and elderly patients who have trouble in swallowing tablets. As precision of dosing and patient's compliance become important prerequisite for a long-term treatment, there is a need to develop a formulation for this drug which overcomes problems such as difficulty in swallowing, inconvenience in administration while travelling, and patient's acceptability. Hence, the present investigation was undertaken with a view to develop a fastdisintegrating tablet of Cefixime Hydrochloride which offers a new range of products having desired characteristics and intended benefits. Superdisintegrants such as Sodium Starch Glycolate were optimized. It was concluded that fast disintegrating tablets of Cefixime Hydrochloride were formulated successfully with desired characteristics which disintegrated rapidly, provide rapid onset of action, and enhance the patient convenience and compliance.

No. of Pages : 16 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/08/2022

(21) Application No.202211044287 A
(43) Publication Date : 19/08/2022

(54) Title of the invention : ANTIMICROBIAL COMPOUND (E)-2-PHENOXY-1-PHENYL-N-(4H-1, 2, 4-TRIAZOLE-4-YL) ETHANIMINE AND SYNTHESIS THEREOF

(51) International classification	:C07D0249080000, C07J0009000000, C07H0001000000, A61P0031040000, A61K0036899000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention belongs to the field of pharmaceutical science. More, particularly the invention pertains to Synthesis and antimicrobial activity of novel compound (E)-2-phenoxy-1-phenyl-N-(4H-1, 2, 4-triazole-4-yl) ethanimine. The novel process involved mixing of 2-phenoxy-1-phenylethanone (0.01 mol), 4-amino -1, 2, 4-triazole (0.01mol) and 1 ml of glacial acetic acid in 100 ml ethanol and was refluxed on water bath for 10 h. The mixture is allowed to cool, and then the separated solid is filtered and recrystallized from ethanol to afford the (E)-2-phenoxy-1-phenyl-N-(4H-1, 2, 4-triazole-4-yl) ethanimine. The (E)-2-phenoxy-1-phenyl-N-(4H-1, 2, 4-triazole-4-yl) ethanimine shows zone of inhibition 14mm, 16mm, 22mm against B. Subtilis,E. Coli, C. albicans respectively as compare with standard drugs.

No. of Pages : 13 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/08/2022

(21) Application No.202211044328 A

(43) Publication Date : 19/08/2022

(54) Title of the invention : TRUST AWARE INTRUSION DETECTION SYSTEM BASED ON CLUSTER

(51) International classification :H04L0029060000, H04W0084180000, H04W0012120000, H04W0040200000, H04W0012100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the field of the energy aware security technique that can weed out misbehaving nodes from the network. The invention more particularly relates to the trust aware intrusion detection system based on cluster. Mobile Ad hoc Networks (MANET) has gained substantial research interest, owing to its easy deployment and inexpensiveness. However, the security of the network is the major concern, because of the absence of the central authority. This work addresses these issues by incorporating the trust mechanism in the cluster formation and routing. The chief node is selected on the basis of four trust parameters such as energy, packet delivery ratio, neighbour count and mobility. The chief node kicks off the misbehaving nodes during the process of routing. The proposed work is proved to be resilient against replay and sybil attacks.

No. of Pages : 29 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/07/2022

(21) Application No.202211038014 A
(43) Publication Date : 15/07/2022

(54) Title of the invention : LIPID VESICLES FOR THE EFFECTIVE TREATMENT OF FUNGAL INFECTION THROUGH TOPICAL GEL FORMULATION

(51) International classification :A61K0009000000, A61K0009127000, A61K0047320000, A61K0047100000, A61K0031496000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the formulation and evaluation of Itraconazole loaded vesicular gel for the effective treatment of topical fungal infections. Itraconazole loaded lipid vesicles were prepared by cold method using different concentrations (1%-2%) of phospholipid (Lipoid 75-S) and ethanol (10%-30%). Optimized vesicles (EF5) with vesicle size 220.72nm, polydispersity index 0.651 and entrapment efficiency 70.92±1.62% was selected to be incorporated in to the carbopol gel base compared with controlled gel, hydroethanolic gel and marketed gel formulation of Itraconazole. The prepared gel formulations were evaluated for organoleptic character, pH, drug content and release. Results of antifungal activity, had showed that more antifungal activity was exerted by lipid vesicular gel as more value of inhibition zone than hydroethanolic gel and controlled gel. The Itraconazole loaded lipid vesicles are promising carrier for the topical delivery in the treatment of fungal disorders.

No. of Pages : 23 No. of Claims : 9

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/07/2022

(21) Application No.202211041918 A
(43) Publication Date : 29/07/2022

(54) Title of the invention : ANTIPYRETIC HERBAL COMPOSITION

(51) International classification :A61K0036480000, A23L0033105000, A61B0005010000, A61K0031205000, A61K0036185000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to an antipyretic formulation comprising ethanolic extracts of stem bark of Bauhinia variegata, optionally along with pharmaceutically acceptable additives; its use in treating fever, and lastly, a process for the preparation said antipyretic formulation. The antipyretic formulation comprising extracts of stem bark of Bauhinia variegate (100-400 mg/kg body wt.) and reduces body temperature up to 37oC after 4½ Hrs of administration.

No. of Pages : 15 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/07/2022

(21) Application No.202211041921 A
(43) Publication Date : 29/07/2022

(54) Title of the invention : ANTI-OBESITY POLYHERBAL FORMULATION

(51) International classification :A61K0036896200, A61K0036670000, A61K0036820000, A61K0036420000, A61K0036185000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to relates to anti-obesity formulation. More particularly, the methanolic polyherbal formulation for treatment and management of obesity and associated complications, said formulation comprising extract of Agnimotha, Allium sativum, Chitrak, Green tea, Momordica chitrak, Mustak, Piper nigrum, Punarnava and Vacha, wherein, each of the extracts contains 0.01 to 10 parts by weight based on 100 parts by weight of the total composition. The formulation changes the SGPT level upto 8% after treatment with 100-200 mg/kg body wt of Wister albino rat.

No. of Pages : 16 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/07/2022

(21) Application No.202211042338 A
(43) Publication Date : 12/08/2022

(54) Title of the invention : ANTI-ANXIETY ACTIVITY AND HPTLC PROFILING OF BIOACTIVE FRACTION OF ZIZIPHUS JUJUBE LEAVES

(51) International classification :A61K0036725000, A61K0036185000, A23L0033105000, A01N0065000000, G01N0030900000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present work conducted on ethanolic extract of Ziziphus jujube leaves for antianxiety potential. Ziziphus jujube leaves, moisture content was 0.486%, extractive values in petroleum ether, chloroform, ethanol and water were 15%, 10%, 15.5%, and 11.5% respectively Pharmacological studies showed that ethanolic fraction of leaves is bioactive as it possess antianxiety activity significantly as compared to standard drug diazepam in light and dark, rota rod and elevated plus maze test. Phytochemical screening showed presence of various phytoconstituents such as flavonoids, alkaloids, sterols, carbohydrates, terpenoids, saponins and tannins. High performance thin layer chromatography (HPTLC) profiling of extract showed presence of ten (10) compounds in chloroform and methanol solvent (8.5:1.5 ratio). The activity in the extract may be due to the presence of various phytoconstituents. It is concluded by this study that ethanolic fraction of Ziziphus jujube leaves may be used in future for treatment of anxiety related disorders.

No. of Pages : 16 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/07/2022

(21) Application No.202211042857 A
(43) Publication Date : 05/08/2022

(54) Title of the invention : A METHOD OF ELUCIDATION OF POSSIBLE MECHANISM OF ANTIDIABETIC POTENTIAL OF ZN LOADED BRYOPHYLLUM PINNATUM (LAM.) EXTRACTS

(51) International classification :A61K0036410000, A61K0036185000, A21D0002260000, A61K0031155000, A61P0003100000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present study has been focused on the anti-diabetic potential and fingerprinting analysis of B. pinnatum stem as well as elucidating the possible mechanism of action of the same along with identification of Major phyto-constituents. Acute toxicity studies have been performed on both the extracts BPSAL (Bryophyllum pinnatum stem alcohol extracts) and BPSAQ (Bryophyllum pinnatum stem aqueous extract) as per the OECD guidelines. The oral glucose tolerance test (OGTT) has been performed administering the glucose solution (2000mg/kg) to induce hyperglycemia. STZ-induced antidiabetic potential has been performed by single intra-peritoneal injection of STZ (65mg/kg). After confirming the diabetes fasting blood glucose (FBG), body weight and lipids profiles have been determined. Chromatographic analysis (TLC, HPTLC) have been performed to identify the chief phytoconstituents present in extracts. BPSAL and BPSAQ extracts were found to be safe up to a dose of 3000mg/kg. OGTT results showed a reduction in FBG. In diabetic rats, BPSAL significantly decreased FBG ($p<0.001$) and restored the lipid profile, body weight, and anti-oxidant profile when compared to control. When BPSAL at 200, 400mg/kg b.w doses combined with ZnSO4 showed extremely significant reduction in FBG among all groups. Groups received ZnSO4 showed statistically significant reduction in LDL, TG and TC levels and enhanced level of HDL level. Fingerprinting analysis has been performed to identify the major phytoconstituents present in extracts may be responsible for the antidiabetic potential. BPSAL and BPSAQ extracts showed statistically significant antidiabetic activity in STZ induced diabetic rats. ZnSO4 showed synergistic effects on diabetic rats when combined with BPSAL and significantly reduced the FBG, LDL, TG and TC levels and enhanced the level of HDL. Fingerprinting analysis revealed the presence of Flavonoids Morin, chrysin, and 6-hydroxy flavones, as well as iso-quercetin, hyperosides, and terpenoids etc. The above identified phytoconstituents along with in zinc (Zn) and copper (Cu) may be responsible for the marked antidiabetic potential of extracts.

No. of Pages : 28 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/07/2022

(21) Application No.202211042856 A

(43) Publication Date : 05/08/2022

(54) Title of the invention : A METHOD OF DOCKING OF PHYTO-CONSTITUENTS AS THERAPEUTIC LEADS AGAINST SARS COV-2

(51) International classification :A61K0038000000, C23C0014160000, A61K0031352000, H01J0037320000, A61K0031575000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
Researchers are seeking for phyto-candidates that can inhibit or stop SARS-CoV-2 because of the present pandemic. The main protease (Mpro) of SARS-CoV-2 and spike glycoprotein (S) are both suppressed by bioactive compounds found in plants that work by docking them together. The Mpro proteins 6LU7 (complex with an inhibitor N3) and 5C3N (space group C2221) were employed in docking research. PyRx and AutoDock Vina software was used as a docking engine. 22 phytoconstituents were identified and selected from IMPPAT, a manually curated database on the basis of their antiviral effects. Docking results showed that phytoconstituents ß-amyrin (-8.4 kcal/mol), Withaferin A (-8.3 kcal/mol), Oleanolic acid (-7.8 kcal/mol) and Patentiflorin A (-8.1 kcal/mol) have shown best results against 5C3N Mpro whereas Kuwanon L (-7.1 kcal/mol), ß-amyrin (-6.9 kcal/mol), Oleanolic acid (-6.8 kcal/mol), Cucurbitacin D (-6.5 kcal/mol) and Quercetin (-6.5 kcal/mol) against 6LU7 Mpro Protein. All the compounds were examined for their ADMET characteristics using SwissDock. Present research reports the phytoconstituents along with docking score will be helpful for future drug development against Covid-19 drugs.

No. of Pages : 30 No. of Claims : 3

REGISTRAR
IFTM UNIVERSITY
MORADABAD

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/08/2022

(21) Application No.202211044054 A

(43) Publication Date : 12/08/2022

(54) Title of the invention : PHARMACOLOGICAL ESTIMATION OF NOOTROPIC ACTIONS OF AVERRHOA CARAMBOLA FRUITS

(51) International classification	:A01K0001000000, A61K0039000000, G01N0033000000, A23L0019000000, A61K0036185000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)Dr. Sushil Kumar

4)Mr. Amit Kumar

5)Mr. Dinesh Kumar

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(57) Abstract :

The present invention relates to pharmacological estimation of nootropic actions of averrhoa carambola fruits. The Fruits of averrhoa carambola were then patted dry with blotting paper and used for the experiments. Experiments were performed on either six of albino Wister rats. Animals were procured from the animal house of the IFTM University, Moradabad and maintained on a natural day–night cycle at room temperature of about 24-26°C, with free access to standard food pellets and water ad libitum. Animals were acclimatizing for at least ten days before exposure to behavioural experiments. The acute oral toxicity was performed according to the OPPTS (office and prevention pesticides and toxic substance) Guideline following up and down procedure. Many different cultivars are grown, most are selected to optimize fruit flavor and maximum fruit production for specific growing areas, with each country or region having their own specific selections.

No. of Pages : 12 No. of Claims : 3

Sanjeev Rawat
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IFTM UNIVERSITY
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/08/2022

(21) Application No.202211044547 A
(43) Publication Date : 19/08/2022

(54) Title of the invention : ORAL SUSTAINED DELIVERY OF PIROXICAM FROM IN-SITU GELLING USING GELLAN AND SODIUM ALGINATE FORMULATIONS

(51) International classification :A61K0009000000, A61K0009200000, A61K0047360000, A61K0031541500, A61K0031540000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad ---------- ----------

(57) Abstract :
The present invention relates to the formulation and evaluation of liquid in- suit gelling system to obtain the oral sustained drug delivery system of Piroxicam. The liquid in-situ gelling formulations capable of floating on simulated gastric fluid (SGF) have been assessed for their potential for the site-specific sustained delivery. The formulations were a dilute suspension of Piroxicam in Gellan gum/Sodium alginate (alone or in combination) solution in deionized water. Calcium carbonate was used as buoyancy imparting as well as crosslinking agent. Further effect of incorporation of Type A/B gelatin and calcium chloride on release of Piroxicam from Gellan/Sodium Alginate formulations were also investigated. Maximum retardation of drug release was observed with in-situ gel formulations. The in vitro release of Piroxicam from in-situ gelling gellan/sodium alginate formulations followed both Korsmeyer and Higuchi kinetics. Wherein the process of preparation of the preparation process is simple, the preparation is stable and reliable in quality.

No. of Pages : 13 No. of Claims : 4

Sanjeev Anand
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Office of the Controller General of Patents, Designs & Trade Marks
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Government of India

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PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS
(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202211043968
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/08/2022
APPLICANT NAME	1 . PROF.(DR.)RAHUL KUMAR MISHRA 2 . R. P. Meenaakshi Sundhari 3 . Prof. Apurva Indrodia 4 . Dr.S.Vimalnath 5 . Dr. SRIDHAR. K. 6 . Mr. Gaurav D Saxena 7 . Dr. RAJESH B. SURVASE 8 . Mrs.S.Varshavardhini 9 . Dr V Girija 10 . Dr. Nrupura Ramnath Dixit 11 . Dr. Harikumar Pallathadka
TITLE OF INVENTION	IOT WITH ARTIFICIAL INTELLIGENCE (AI) IS BASED ON THE USE OF SMART CHIPS TO CREATE AN EMBEDDED OPERATING SYSTEM WITH A HIGH LEVEL OF CONFIDENCE
FIELD OF INVENTION	COMMUNICATION
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	12/08/2022

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/08/2022

(21) Application No.202211044302 A

(43) Publication Date : 19/08/2022

(54) Title of the invention : ANTIANXIETY COMPOUND 7-(2-(2-(3-(4-CHLOROPHENYL) ACRYLOYL) PHENOXY) ETHOXY)-4-METHYL-2H-CHROMEN-2-ONE AND SYNTHESIS THEREOF

(51) International classification :G01N0021640000, C07C0213020000, C07B0061000000, C07D0295088000, C07C0269040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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9)Mr. Shami Iqbal
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(57) Abstract :
The present invention belongs to the field of pharmaceutical science. More, particularly the invention pertains to synthesis and antianxiety activity of novel compound 7-(2-(2-(3-(4-chlorophenyl) acryloyl) phenoxy) ethoxy)-4-methyl-2H-chromen-2-one. The novel process involved mixing of 0.004 mole of 7-(2-bromoethoxy)-4-methyl-2H-chromen-2-one and 0.004 mole 3-(4-chorophenyl)-1-(2-hydroxyphenyl) prop-2-en-1-one was dissolved in 100 ml of anhydrous acetonitrile in a 250 ml round bottom flask. 0.008 mole of anhydrous potassium carbonate and catalytic amount of potassium iodide were added into above solution. The above mixture was refluxed for 12 h. After completion of reaction, the reaction mixture was filtered and solvent was removed under reduced pressure to obtain the 7-(2-(2-(3-(4-chlorophenyl) acryloyl) phenoxy) ethoxy)-4-methyl-2H-chromen-2-one. The obtained compound was washed with water and recrystallized from ethanol to afford the 7-(2-(2-(3-(4-chlorophenyl) acryloyl) phenoxy) ethoxy)-4-methyl-2H-chromen-2-one.

No. of Pages : 15 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211044221 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 19/08/2022

(54) Title of the invention : PHARMACOLOGICAL EVALUATION OF ANALGESIC ACTIVITIES OF AMARANTHUS SPINOSUS STEM

(51) International classification	:A61K0036210000, A61K0045060000, A61K0036280000, A61K0031050000, A61K0049180000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present invention relates to that there are number of synthetic (allopathic) drugs which are used in the treatment of mental disorders, they are helpful but synthetic drugs also have lots of side effects with the monetary problem. The Ayurveda has long tradition of treating mental disorders. Herbal drugs are playing significant role in the health care agendas worldwide, mostly due to the general faith that they are without any side effects, besides being contemptible and locally available. Recently there is a recovery of an interest in herbal medicines for the management of different aliment including CNS disorders. Experimental screening of ethanolic extracts of Stem of Amaranthus spinosus for analgesic activity Acetic acid induced, Eddy's Hot Plate and Tail-flic method.

No. of Pages : 15 No. of Claims : 3

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REGISTRAR
IFTM UNIVERSITY
MORADABAD

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2022

(21) Application No.202211073311 A

(43) Publication Date : 30/12/2022

(54) Title of the invention : MOLECULAR MODELLING OF ANTIVIRAL THIAZOLO-OXADIAZOLE NUCLEOSIDE DERIVATIVES FOR DISEASE MANAGEMENT OF CORN AND BEAN VIRUS

(51) International classification	:A61P0031120000, A01N0025040000, G06Q0050020000, G06F0030340000, C07K0014415000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present invention relates to the antiviral measures employed benefit greatly from the latest knowledge highlighted by plant virologists, geneticists, and molecular biologists, as well as engineers and breeders, whose coordinated effort enables the deployment of crop improvement programs. The cost of maintaining crops using conventional pesticides outweighs the economic benefits from crop production and yield. Designing the different thiazoloxadiazole derivatives carrying different pharmacological groups to investigate their antiviral activities required for the control of plant viruses (corn virus and bean virus). For the design of the said thiazoloxadiazole molecules, online software was used. After designing of the nucleoside molecules, docking with proteins of plant viruses will be done to get the data for screening of the antiviral activity.

No. of Pages : 16 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/06/2022

(21) Application No.202211035182 A
(43) Publication Date : 08/07/2022

(54) Title of the invention : EVALUATION OF DIESEL ENGINE PERFORMANCE PARAMETERS FUELLED WITH BLENDS OF BIODIESEL OF WASTE SESAME OIL

(51) International classification :F02B0003060000, C10L0001020000, F02D0019080000, C10L0001180000, F02B0075320000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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4)Prof. Vishal Saxena
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(57) Abstract :
The present invention relates to blends of bio diesel obtained from waste or used vegetable oil has been tested for diesel engine without any change in design. Different blends of biodiesel obtained from waste sesame oil and menthe oil has been explicated in V.C.R. diesel engine. The important intention of this work is to explore the effect of the blends B20, B40, B60, B80, B100 and pure diesel fuel on performance characteristics of engine. Performance characteristics of engine has been observed for above mentioned blends at 0% load , 25 % load, 50% load, 75 % load and 100 % load. This work describes that brake thermal efficiency, indicated thermal efficiency, brake power is less for blends of waste sesame oil biodiesel and pure menthe oil while Brake specific fuel consumption is higher as compared to pure diesel oil. Blend B20 can be use as fuel in agriculture sector.

No. of Pages : 14 No. of Claims : 6

REGISTRAR
IFTM UNIVERSITY
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/06/2022

(21) Application No.202211037128 A
(43) Publication Date : 08/07/2022

(54) Title of the invention : A DEEP LEARNING-BASED NOVEL ARCHITECTURE TO DIAGNOSE THE CONCENTRATION CAPACITY OF A STUDENT DURING CLASSROOM LEARNING USING DATA MANAGEMENT TECHNIQUES

(51) International classification :G06Q0050200000, G06N0003080000, G10L0015010000, G09B0007040000, G06F0021620000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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5)Dr. Sonia Gouri
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7)Dr. Kalyan Singh Rawal
8)Ms. Payal Makkad
9)Mr. Anjan Kumar
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(57) Abstract :
The present invention relates to the system that automatically diagnoses the concentration capacity of a student while classroom learning using a specific deep learning algorithm. The objective of the present invention is to prepare an architecture that will help various Educational Institutions to diagnose the performance of the students in order to increase their concentration capacity. The database has been processed using efficient data management techniques used in management domain to attain highest accuracy levels.

No. of Pages : 12 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/06/2022

(21) Application No.202211034724 A

(43) Publication Date : 24/06/2022

(54) Title of the invention : A SYSTEM FOR IDENTIFYING BIOACTIVE AGENTS UTILIZING UNBIASED MACHINE LEARNING AND METHOD THEREOF

(51) International classification	:G06N0020000000, G06K0009620000, G06F0016583000, C12Q0001689700, G01N0033580000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present invention discloses a system for identifying bioactive agents utilizing unbiased machine learning and method thereof. The system includes, but not limited to, a memory which stores instructions; one or more processors attached to the memory wherein the one or more processors, when executing the instructions which are stored, are configured to have: a machine learning interface for determining an event timeline that comprises one or more bioactive agent tethered to a fluorophore associated with a biomolecule; a means adapted to provide a cellular target fused to a bioluminescent reporter with a substrate for the bioluminescent reporter. Further, the machine learning interface is configured for expressing in a cell a fusion of the cellular target and a bioluminescent reporter that emits energy at a first wavelength.

No. of Pages : 20 No. of Claims : 8

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IFTM UNIVERSITY
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/06/2022

(21) Application No.202211034663 A

(43) Publication Date : 24/06/2022

(54) Title of the invention : A SYSTEM FOR OVER-CURRENT AND OVER-VOLTAGE PROTECTION OF TRANSFORMER UNIT BY USING MICRO CONTROLLER

(51) International classification	:H02H0003093000, H02H0003080000, H02H0007220000, H02H0003200000, H01H0071120000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present invention relates to a system (100) for over-current and over-voltage protection of transformer unit by using micro controller. The system (100) comprises a transformer unit, a current sensing unit (106), a voltage sensing unit (108), a temperature sensing unit (110), one or more solid state relays (SSR), an analog to digital unit, and microcontroller unit (112). The microcontroller unit (112) is configured to receive the detected information by the current sensing unit (106), voltage sensing unit (108) and temperature sensing unit (110); analyze the receive information; generate the tripping signal on detection of value of current, voltage, and temperature exceed from a predefined threshold value; and send the tripping signal to the one or more solid state relays (SSR) to trip the transformer unit.

No. of Pages : 11 No. of Claims : 6

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REGISTRAR
IFTM UNIVERSITY
MORADABAD

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/06/2022

(21) Application No.202211034712 A
(43) Publication Date : 01/07/2022

(54) Title of the invention : M20 CONCRETE CANTAINING STEEL FI BRE AS REINFORCEMNET MATERIAL

(51) International classification :C04B0014480000, C04B0040000000, E01D0019120000, C12N0007000000, E01D0101260000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
In this invention an attempt is made for assessment of compressive strength of steel fiber 5 concrete. Concrete mixes M25, are designed as per the Indian standard code (IS-10262-2009) by replacement, 0.0%, 0.5%, 1.0%, 1.5%, 2.0% and 2.5% of steel fiber concrete cube of size 150mm x 150mm x150mm are casted and tested for compressive strength at 7days, 14days and 28days after the curing of cube. It is observed that compressive strength is on higher side of 1.5% fibers as compared to that produced from 0%, 1%,2%, and 2% 10 fibers.

No. of Pages : 30 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/06/2022

(21) Application No.202211034662 A
(43) Publication Date : 24/06/2022

(54) Title of the invention : ANALYSIS OF PIEZO-MEMS GENERATOR FOR ENERGY HARVESTING FROM VARIOUS SOURCES OF VIBRATION

(51) International classification	:H02N0002180000, H01L0041113000, H01L0037020000, G01R0031580000, G01N0029420000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to an effectiveness of a cantilever bimorph piezoelectric energy harvester for different sources of vibration. A thin film lead zirconate titanate (PZT), energy harvesting micro electro mechanical system (MEMS) generator has been developed for high demands in powering the wireless sensor networks. The work has typically focused on single member cantilevered structure with transverse tip displacement at a known frequency. Results obtained from theoretical and experimental calculations are compared for an open circuit voltage. The experimental result shows that the generator possesses a maximum open circuit voltage of 10.00 V and power output of 2.4 μW when excited at a resonant frequency of 60 Hz with an acceleration of 4.50 ms-2 on DC motor. The output voltage and power output of the generator has also been compared for selected vibration sources under different acceleration levels.

No. of Pages : 14 No. of Claims : 4

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MORADABAD

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/06/2022

(21) Application No.202211034713 A
(43) Publication Date : 01/07/2022

(54) Title of the invention : A METHODOLOGY FOR TESTING OF WASTE MATERIAL FOR USING IT AS ROAD PAVEMENT IN PLACE OF BITUMEN AND AGGREGATE

(51) International classification :C08L0095000000, B29B0017000000, C10B0053070000, C10G0001000000, C08L0101000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
In consideration of frequent submergence problems, high summer temperature and poor pavement construction practice and above all environmental hazards due to waste plastic, the 5 use of waste plastic in road construction may bring economic benefits in the many ways. After conducting laboratory tests on bitumen binder and mixtures with different polymer content and after analyzing the data and comparing the results, the following conclusions are drawn: -(1) The result shows that with increase of waste plastic in bitumen increases the properties of aggregate and bitumen. (2) The optimum use of plastic can be 12 % of bitumen based on 10 Marshal Stability test. (3) The modified bitumen shows good result when compared to standard results. (4) For all modified binders prepared, the penetration values decrease as waste plastic ratio increases whilst, softening point values increase as waste plastic ratio increases. (5) The coating of aggregates with waste plastic reduces the absorption of moisture. (6) By using waste commodity plastics in binder modification carries the advantage of a cheap, technologically 15 effective means of enhancing conventional binder performance and offers an alternative way to manage plastic waste. (7) This has added more value in minimizing the disposal of plastic waste is the eco-friendly technique.

No. of Pages : 22 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/06/2022

(21) Application No.202211035055 A
(43) Publication Date : 12/08/2022

(54) Title of the invention : PROPAGATION OF SPHERICAL SHOCK WAVES IN THE ATMOSPHERE

(51) International classification	:B62D0025080000, H04N0001040000, B64G0001620000, G06F0030200000, G01S0013950000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to investigation of spherical shock waves in earth atmosphere. The results have been analyzed by mathematical model. The model shows that when wave front propagates in upward direction the shock velocity increases and remains constant in horizontal direction.

No. of Pages : 13 No. of Claims : 6

Sanjeev Bhatnagar

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/05/2022

(21) Application No.202211030703 A
(43) Publication Date : 03/06/2022

(54) Title of the invention : A NOVEL SYNTHESIS OF METALLIC SILVER NANOPARTICLES, CHARACTERIZATION AND METHOD THEREOF

(51) International classification :B82Y0030000000, A61K0009510000, A01N0059160000, C12N0015110000, A61K0033380000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention discloses a novel synthesis of metallic silver nanoparticles, characterization and method thereof. a novel and rapid green biogenesis production of sliver nanoparticles by using extract of C. roseus. The developed process is fast and better from previously known processes and the size of the synthesized nanoparticles were much smaller than other previously known methods of synthesizing nanoparticles. The primary confirmation is done by qualitative analysis i.e., change of brownish color within 5 min and after 15 min. it turns in to dark reddish brown. The reduction of silver nanoparticles was also confirmed by UV-Vis spectrophotometer- as the maximum absorbance of UV-Vis spectra were found at around ~425 nm. The average size of the synthesized nanoparticles was approximately 11 nm. These nanoparticles can be used as a drug for various diseases like antimicrobial, antifungal and cancer treatment. Due to the smaller size these nanoparticles have great tendency to penetrate the tumors especially for cancer cell.

No. of Pages : 26 No. of Claims : 6

REGISTRAR
IFTM UNIVERSITY
MORADABAD

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/05/2022

(21) Application No.202211031074 A
(43) Publication Date : 10/06/2022

(54) Title of the invention : NOVEL ANTIDEPRESSANT AND ANALGESIC COMPOSITION AND ITS METHOD OF SYNTHESIS

(51) International classification :A61K0036906800, A61K0036610000, A01N0065280000, A61K0036515000, A61K0031121000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention belongs to the field of pharmaceutical science. More, particularly the invention pertains to a herbal formulation capable of analgesic and antidepressant effect, the formulation comprising therapeutically effective amounts of the plants selected from Eucalyptus (Eucalyptus globulus) and Ginger (Zingiber officinale) alone or in synergistic composition thereof and acceptable carriers. The said herbal formulation is administered in dosages ranging from 10mg/kg to 250 mg/kg of body wt of Albino rats.

No. of Pages : 16 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/06/2022

(21) Application No.202211031461 A
(43) Publication Date : 10/06/2022

(54) Title of the invention : FORMULATION AND OPTIMIZATION OF DELAYED RELEASE MICROSPHERES OF LORNOXICAM USING NATURAL AND SYNTHETIC POLYMERS

(51) International classification :A61K0009500000, A61K0009000000, A61K0009160000, A61K0008730000, D01F0001100000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the preparation and evaluation of lornoxicam loaded alginate-okra gum or ethyl cellulose microspheres. The microspheres were prepared by using sodium alginate with natural polymer and synthetic polymers in different ratios by Ca2+ induced ionic-gelation cross-linking. The formulations were optimized on the basis of drug release. The formulated microspheres were characterized for particle size, percentage drug entrapment efficiency, micromeritic properties, percentage swelling index and in-vitro drug release study. The microspheres exhibited good flow properties and also showed high percentage drug entrapment efficiency. In-vitro drug release data obtained were fitted to various release kinetic models to access the suitable mechanism of drug release. In conclusion, drug release over a period of time could be achieved from these prepared microspheres, and potentially used for intestinal drug delivery.

No. of Pages : 26 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/06/2022

(21) Application No.202211031457 A
(43) Publication Date : 10/06/2022

(54) Title of the invention : EXPERIMENTAL INVESTIGATION AND EFFECTS OF BIOMEDICAL IMPLANTS ON HUMAN BODY BY IN VITRO CORROSION STUDIES

(51) International classification :A61F0002300000, A61L0027340000, G06Q0050220000, A61F0002380000, A61L0027500000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The invention relates to the preventing us from engaging in any physical activities. A comparative investigation and its impact on biomedical implants, as well as certain clinical and other test data like in vitro corrosion studies obtained after the implants have been removed from the human body. Two conditions have been taken i.e. one is at the time of implant fixation in the human body and second is at the time when the implant is explanted from the human body after number of years. The implant is a replacement of the fracture or damaged part and it performs the function like original or replaced part. In this study we have investigated many factors which affect the life of implant and the problems which a person faces after the fixation of the implant. The selection of the implant is based on the compatibility with the human body.

No. of Pages : 18 No. of Claims : 7

REGISTRAR
IFTM UNIVERSITY
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/06/2022

(21) Application No.202211031877 A
(43) Publication Date : 10/06/2022

(54) Title of the invention : A CANAL RESTRUCTURING SYSTEM FOR AGRICULTURAL LAND

(51) International classification	:E02B0013020000, E02B0013000000, E02B0005080000, A01G0025090000, C02F0009000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention discloses a canal restructuring system for agricultural land. The present study is an attempt to find out the changes in agricultural land of rabi season because during rabi season canal is important source of irrigation in23 Down Haidergarh canal command system. Remote sensing and GIS techniques were used to monitor the changes after the restructuring of canal system. The LISS-III data (Linear Imaging Self-Scanner) of Rabi season for the year 2011-12 and 2017-18 was used for mapping of agricultural land use changes in rabi season for 23 Down Haidergarh canal command system. This study is useful to find out the change in agricultural land after the restructuring of canal command system.

No. of Pages : 28 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202211031970 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : 5G INDUSTRIAL IOT ENABLED CLOUD MANUFACTURING SECURITY SERVICE ARCHITECTURE BASED ON FOG COMPUTING AND BLOCKCHAIN

(51) International classification :H04L0029080000, H04L0029060000, H04L0012240000, G05B0019418000, H04L0009320000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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8)Dr.Manoranjan Dash

9)Dr Shipra Shivkumar Yadav

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11)Dr. Harikumar Pallathadka

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(57) Abstract :
The most recent iteration of the Industrial Internet of Things (IIoT) confers additional capabilities upon the traditional production model in preparation for Industry 4.0 through the use of cloud computing. Cloud integration expands the capabilities of manufacturing systems by providing cloud-based control and real-time process monitoring. This type of expansion is known as Cloud Manufacturing (CM). The incorporation of cloud computing, on the other hand, presents a new set of security concerns to the entire manufacturing ecosystem as well as increases in end-to-end latency. By moving security services closer to the network's edge, you can minimise message routing latency towards the cloud, remove the system's single most likely point of failure, and improve the overall performance of the system as a whole. We present a security service architecture that is supported by blockchain technology and fog computing, and it works on fog nodes that are located at the edge of manufacturing equipment clusters. The proposed service makes it easier for CM equipment to be authenticated and protects the privacy of the connection between equipment and the cloud, all while maintaining anonymity and unlinkability throughout the blockchain. We used Hyperledger Fabric to create the proposed design, and then compared the performance benefit it offered to that of the most recent and cutting-edge alternatives.

No. of Pages : 12 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/06/2022

(21) Application No.202211033043 A

(43) Publication Date : 24/06/2022

(54) Title of the invention : FORMULATION AND DEVELOPMENT OF LIPID BASED DRUG DELIVERY SYSTEM OF GLICLAZIDE

(51) International classification :A61K0009510000, A61K0009107000, A61K0009480000, A61K0047260000, A61K0031640000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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5)Dr. Prevesh Kumar

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(57) Abstract :

The present invention relates to the formulation of lipid based drug delivery system of Gliclazide. Formulations were prepared by mixing the drug and carrier using heat fusion method as it is considered as the mechanism for the enhancement of solubility and dissolution of the drug. The in-vitro releases of the different formulations were studied based on the effect of surfactant and oil including their thermodynamic stability. Formulated drug and adjuvants were characterized by spectrophotometry (UV, FTIR and photon correlation). Dissolution studies showed that F3 had the smallest particle size of 127.6 nm, with values for other formulations ranging from 176.8-248.8 nm. The cumulative percentage release for all formulations ranged from 21.20±1.68% to 80.92±3.82%, with F3 having the highest value of 80.92 ± 3.82%. Soya lecithin, soyabean oil and tween 80 showed no significant influence on formulation's stability. These results confirmed that the prepared formulations increases the oral bioavailability

No. of Pages : 17 No. of Claims : 5

Sanjeev Dhawan

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Application Status	
APPLICATION STATUS	Application ready for publication

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination

➡ Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/06/2022

(21) Application No.202211033853 A
(43) Publication Date : 24/06/2022

(54) Title of the invention : IN VITRO CHARACTERIZATION AND INVIVO EVALUATION OF RUTIN TRIHYDRATE LOADED LIPOSOMES FOR IMPROVED EFFICACY

(51) International classification :A61K0009127000, A61K0009510000, A61K0031704800, A61K0047460000, A61K0009200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The aim of present invention is to resolve rapid clearance and high plasma protein binding and poor bioavailability problems. The Rutin trihydrate loaded Liposomes was formulated to enhance permeability and in vivo bioavailability. Best Liposomes F2, F4, F6 and F9 formulations were prepared and characterized for % drug entrapment, average vesicle size, zeta potential, FTIR and release kinetics. Best formulation F4 selected on the basis of entrapment and particle size which is 161.4 nm and 86.18±0.042. F4 formulation showed good physicochemical characteristics and has better kinetic results. The Liposomes stored at 4oC were found to be stable for duration of three months. It shows in vitro DPPH assay for antioxidant potential and used treatment of in vivo anti-inflammation activity and antipyretic activity.

No. of Pages : 18 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/05/2022

(21) Application No.202211028996 A
(43) Publication Date : 27/05/2022

(54) Title of the invention : ANTIMICROBIAL HERBAL COMPOSITION

(51) International classification :A61K0036480000, C12N0015520000, A61K0009000000, C07K0014255000, A23K0030000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to antimicrobial herbal composition comprising vacuum dried ethanolic extract of the leaves and stem of Bauhinia vahlii (EEBVL and EEBVS), wherein said composition inhibits the growth of bacterial strains and fungal strain. The instant composition shows antimicrobial activity against bacterial strains, including Staphylococcus aureus ATCC 25923 (gram +ve), Bacillus subtilis ATCC 10774 (gram +ve), Escherichia coli ATCC 25922 (gram -ve), Pseudomonas aeruginosa ATCC 27853 (gram -ve), Salmonella typhi ATCC 733 (gram -ve), fungal strains and Candida albicans ATCC 10231 and Aspergillus niger ATCC 16404.

No. of Pages : 20 No. of Claims : 9

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/05/2022

(21) Application No.202211028907 A
(43) Publication Date : 27/05/2022

(54) Title of the invention : A NOVEL COMPOSITION HAVING METHYL ESTER FATTY ACIDS AS AN ADDITIVE IN A LUBRICANT FOR EXTERNAL MESHING MACHINE COMPONENTS AND PREPARATION METHOD THEREOF

(51) International classification	:C10L0001190000, C10M0141100000, G01N0033680000, C10M0177000000, C10L0001160000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention discloses a novel composition having Methyl Ester Fatty Acids as an additive in a lubricant for external meshing machine components and preparation method thereof. In the present invention, Methyl Ester fatty Acid (MEFA) is used as an additive for the preparation of a Lubricant for external meshing machine Component. Rapeseed oil is used as base oil for the preparation of the lubricant. Four samples were prepared by adding MEFA in to rape seed oil in different concentration. These samples are gone for two different tests. First Test was for load carrying capacity for which load test are carried out. Second test is for service life for which Rotatory Bomb Oxidation Test was conducted. These two tests are also conducted on a commercially available lubricant for comparison. The results shows that the prepared lubricant composition may have better properties than the commercially available lubricant.

No. of Pages : 20 No. of Claims : 4

REGISTRAR
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/05/2022

(21) Application No.202211028860 A
(43) Publication Date : 27/05/2022

(54) Title of the invention : A METHOD FOR STUDY ON ANALYSIS OF CROSS DRAINAGE WORK

(51) International classification :G06F0030130000, E02B0011000000, G16B0015000000, D21H0021100000, E02D0031020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a method (100) for study on analysis of cross drainage work. The method (100) including steps of collect (102) information data different types of cross drainage works; design (104) structural aspects of different types of cross drainage works; select (106) designing parameter for cross drainage work; analyze (108) the designed structural and selected of designing parameter for cross drainage work; make conclusion (110) based on the analyzed the designed structural and selected of designing parameter for cross drainage work.

No. of Pages : 16 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/05/2022

(21) Application No.202211028744 A
(43) Publication Date : 27/05/2022

(54) Title of the invention : DEEP LEARNING BASED DETECTION OF SECURITY ATTACKS USING IN WIRELESS SENSOR NETWORK

(51) International classification	:G06N0020000000, H04W0084180000, G06N0003080000, H04L0029080000, G06N0005040000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Artificial intelligence and a deep learning-based system are used to identify security assaults on wireless sensor networks. Digitalization will lead to an increase in the number of new information-technology applications. Information technology has evolved due to the need to secure personal and confidential data. Attempts to gain access to computer systems have increased in recent years. For the most part, Internet-based apps and cutting-edge technology like the Internet of Things are to blame (IoT). One of the most recent and unique scientific discoveries is a system that employs artificial intelligence and deep learning to detect possible threats to wireless sensor networks. Early detection, diagnosis, and treatment of various illnesses may all benefit from this technique. At the same time, it is faster and more accurate. In recent years, machine learning and artificial intelligence (AI) have been hot topics in communication systems. Consequently, it's critical to have a reliable system in place for keeping tabs on various parameters.

No. of Pages : 17 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/05/2022

(21) Application No.202211029302 A

(43) Publication Date : 03/06/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED TECHNIQUE TO ANALYSE THE VARIOUS NANO MATERIAL PROPERTIES TO BE USED AS DRUG MOLECULES

(51) International classification :G05B0013040000, B82Y0040000000, G06N0020000000, A61K0031506000, A61M0016000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Artificial Intelligence based technique to analyse the various Nano Material Properties to be used as Drug Molecules is the proposed invention. The invention focuses on designing a framework of artificial intelligence where the database of nano materials is studied and analysed. The proposed invention focuses on identifying the nano materials that are suitable for being used as drug molecules for therapeutic treatments.

No. of Pages : 12 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/05/2022

(21) Application No.202211029809 A
(43) Publication Date : 03/06/2022

(54) Title of the invention : ANTIFERTILITY ACTIVITY OF BARK OF THESPESIA POPULNEA

(51) International classification	:G01N0033760000, H04Q0003420000, A61K0033140000, H05B0047190000, A61Q0005000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to the preparation of ethanolic extract of barks of thespesia populnea and evaluation of their anti-fertility activity. Antifertility activity on two models, anti implantation and abortifacient activity. Three doses were selected (low100 mg/kg and high dose 400mg/kg). The pregnant rats were randomly divided into five groups containing six in each group. Group I served as control, Group II served as standard group (Estradiol 0.45 mg/kg). Groups III, IV and V were treated with different dose of alcoholic extract at 100 mg/kg, 200mg/kg and 400mg/kg body weight respectively. The extract was administered orally after making a suspension in the vehicle of normal saline in distilled water from 1 to 7 day of pregnancy. All the test animals were laparotomized under light anesthesia and semi sterile conditions on day 10 of pregnancy. The uteri were examined to count the number of implantation sites.

No. of Pages : 16 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/05/2022

(21) Application No.202211029887 A
(43) Publication Date : 03/06/2022

(54) Title of the invention : A METHODOLOGY OF CONDOURING FOR ANALYSIS GRID CONDOUR SURVEY

(51) International classification :G09B0029120000, G06T0007500000, G06T0017050000, G06F0030130000, G01C0005000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Contouring in surveying is the determination of elevation of various points on the land and fixing these points of same horizontal positions in the contour map. In the land property world, a contour is an outline of a mass of land. Main objective of conducting contour surveys is to identify any noticeable difference in elevation of the existing land. In land surveying a contour map is a map illustrated with contour lines, for example a topographic map, which thus shows valleys and hills, and the steepness or gentleness of slopes.

No. of Pages : 30 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/05/2022

(21) Application No.202211030165 A

(43) Publication Date : 03/06/2022

(54) Title of the invention : A NOVEL COMPOSITION FOR TWO-WHEELER CONNECTING ROD

(51) International classification :H01L0029165000, C22C0014000000, F02F0003000000, G01N0033200000, C23C0014000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention discloses a Novel composition for Two-Wheeler Connecting Rod. fabrication is carried out with various chemical composition of the selected material. It is observed that Forged Steel, Titanium Alloy, Aluminium Alloy 7075 are used for connecting rod. Among these materials Aluminium Alloy 7075 is having lesser Von Mises Stress and Strain, so it is chosen for further study. In the subsequent part, the fabrication of materials by changing the Silicon and Aluminium percentage in Aluminium 7075 is done. The analysis shows that the material with higher percentage of Silicon (Si) is having lesser Von-Mises stress and Strain.

No. of Pages : 26 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/05/2022

(21) Application No.202211030709 A
(43) Publication Date : 03/06/2022

(54) Title of the invention : ANTIMICROBIAL, ANTIOXIDANT AND ANTICANCER HERBAL MOUTHWASH COMPOSED OF BIOACTIVE FRACTION OF ANACYCLUS PYRETHRUM

(51) International classification :A61K0036280000, A61Q0011000000, A01N0065000000, A23L0003347200, G01N0033500000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the preparation of mouthwash containing ethanolic extract of Anacyclus pyrethrum, and to evaluate for its colour, odour, pH, viscosity and stability studies. Phytochemical screening of ethanolic extract shows the presence of alkaloids, carbohydrates, phenolics, flavonoids. Further, it's in vitro antimicrobial activity was investigated by agar well diffusion method, it's in vitro- antioxidant activity was determined using models such as DPPH and its cytotoxic studies were investigated using MTT assay. Ethanolic extract of Anacyclus pyrethrum in herbal mouthwash was found potent in all in-vitro models and exhibit significant antimicrobial, antioxidant and anticancer activity. The present study suggests that the extract can be successfully used in the preparation of mouthwash for its rich source of natural antioxidants.

No. of Pages : 16 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/05/2022

(21) Application No.202211030687 A
(43) Publication Date : 03/06/2022

(54) Title of the invention : A METHOD FOR PROPAGATION OF THE SHOCK WAVES IN THE EXPONENTIALLY DECREASING ATMOSPHERE

(51) International classification :G06F0030200000, A61B0005045200, F02K0007140000, A01G0015000000, F42C0019080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a method (100) for the propagation of the shock waves in the exponentially decreasing atmosphere. The method (100) includes steps of identifying (102) problems generated during propagation of the shock waves; collecting (104)and studying related literature; using (106) mathematical formulation to solve the problem generated during propagation of the shock waves; analyzing (108) and numerical solution of the mathematical model; interpretation (110) of results; generate (112) conclusion. The method (100) for the propagation of the shock waves in the exponentially decreasing atmosphere provides information about how the shock velocity varies in the absence of any body force as the shock waves propagate in the atmosphere, in which the density is decreasing exponentially. The method (100) for the propagation of the shock waves in the exponentially decreasing atmosphere can find an approximate analytic relation between the Mach number and the shock velocity.

No. of Pages : 16 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2022

(21) Application No.202211028316 A

(43) Publication Date : 20/05/2022

(54) Title of the invention : MULTI SECRET SHARING SCHEME USING ITERATIVE METHOD

(51) International classification	:H04L0009080000, H03K0003356200, G09C0005000000, A01B0015060000, G09C0001000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present invention relates to a multi-secret sharing scheme using an iterative method (100). The method (100) includes receive (102) m secrete images for applying a (2, n, m) multi secret sharing scheme; encode (106)m secret images; generate (106) n=m+1 share (S1, S2,…….Sm+1) to encode m secret images; distribute (108) n=m+1 share to the m participants; generate (110) qualify set of n=m+1 share; apply (112) OR operation between shares of qualified set of n=m+1 share and source images to reconstruct. The method (100) discloses in the present use for m secret images. The method (100) has random and square shares, so share handling becomes easy. The major advantage method (100) is that it used XOR operation. So alignment problems do not arise at the time of decryption.

No. of Pages : 14 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2022

(21) Application No.202211028460 A

(43) Publication Date : 27/05/2022

(54) Title of the invention : INVESTIGATION OF FREE RADICAL SCAVENGING ANTIOXIDANT AND ANTIMICROBIAL ACTIVITY OF CORNSILK

(51) International classification :A61K0036899000, A23L0033105000, C12Q0001180000, A23L0003346300, A61K0036470000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the preparation of ethanolic extract of corn silk, and to evaluate its invitro- anti oxidant activity and anti-microbial activity.In the present study, the antioxidant activity of CSEE was determined using different models such as DPPH, ABTS radical scavenging activity, phosphomolybdenum activity, Metal chelation activity and antimicrobial activity was investigated by agar well diffusion method. Ethanolic extract was found potent in all in-vitro models and plant also exhibited significant antimicrobial activity. The presence study suggested that Corn silk ethanolic extract, a budding resource of natural antioxidants.

No. of Pages : 12 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/05/2022

(21) Application No.202211028590 A
(43) Publication Date : 27/05/2022

(54) Title of the invention : AN ANALYZING METHOD FOR USE OF RECYCLED AGGREGATES IN CONCRETE

(51) International classification :G01N0033380000, C08L0023060000, B29K0067000000, E01C0011000000, F23C0009000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to an analyzing method (100) for use of recycled aggregates in concrete. The analyzing method (100) for use of recycled aggregates in concrete includes steps of collect (102) information data from the various published document; study (104) different ways to use recycled aggregates in concrete; check (106) results of adding recycle aggregate in different ratio; analyze (108) the result obtain by the result of adding recycle aggregate in different ratio; generate (110) the last result for use of recycled aggregates in concrete based on the properties and strength of mix; make (112) conclusion based on the generating last result for use of recycled aggregates in concrete.

No. of Pages : 10 No. of Claims : 5

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MORADABAD

(12) PATENT APPLICATION PUBLICATION
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(21) Application No.202211028727 A
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(54) Title of the invention : DIFFERENT COLOR DETECTION USING AI & PYTHON

(51) International classification	:G06K0009620000, G06F0008300000, G06T0007900000, G06F0017120000, G06N0005000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The technique of detecting the name of the color is referred to as color detection. In this situation, identifying the hue and picking one is a simple job for human beings. However, the computer has difficulty accurately identifying the color. This is a difficult assignment for the computer since it should simply recognize the color. This is the reason why we decided to go with this project. This issue is the subject of many research projects and academic articles. But for this creation, we use a variety of diverse methods. Python libraries such as the Naive Bayes method, Pandas, and OpenCV are utilized in the programming language. Classifiers are models that give class labels to problem occurrences, represented as vectors of feature values, where the category labels are derived from some finite set. Naive Bayes may be a straightforward method for building classifiers. There is not a single algorithm for training such classifiers; rather, there is a family of algorithms that support a standard principle. All naive Bayes classifiers assume that the value of a particular feature is independent of the value of the other feature, given the category variable. This is because the naive Bayes classifiers are based on the assumption that the value of the category variable is constant. Free and open-source library for computer vision. OpenCV was developed to maximize computing efficiency while maintaining a strong focus on real-time application development. Encoding of videos on a dedicated server inside the cloud. Panda may be a cloud-based platform that provides the infrastructure for encoding video and audio.

No. of Pages : 19 No. of Claims : 6

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(19) INDIA
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(21) Application No.202211028728 A
(43) Publication Date : 27/05/2022

(54) Title of the invention : SOCIAL DISTANCE AND MONITORING USING IOT AND PYTHON

(51) International classification :G06Q0050000000, B25J0009160000, G08B0021020000, G06Q0050260000, H04L0012580000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Keeping a safe distance from other individuals is crucial during this present epidemic. In certain aspects, it helps prevent the spread of COVID by measuring the distance between those afflicted with it. We're designing a robot that can recognize when individuals in lineups are socially distancing themselves from one another. It uses a two-wheeled configuration to propel itself forward. Its key functions include following the line and checking for infractions of social distancing. The robot follows the line and utilizes infrared sensors to identify infractions as they occur. Adding an ultrasonic sensor to the robot's body is why this. Detecting obstructions in its route is now possible thanks to this. An ultrasonic sensor separates two persons in a queue on the robot. The robot sounds a bell and sends a warning when two persons are found close together. When anything like this happens, the camera sends out a warning and an image of what happened. Those who gain them do so. Viruses cannot spread because of this project's capacity to keep people in line, viruses cannot spread.

No. of Pages : 17 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/05/2022

(21) Application No.202211027299 A
(43) Publication Date : 20/05/2022

(54) Title of the invention : SYNTHESIS, ANTI INFLAMMATORY & ANALGESIC ACTIVITY OF BENZIMIDAZOLE DERIVATIVES

(51) International classification :C07D0263570000, C07D0235180000, C07D0235280000, C07C0231120000, C07K0005100000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the preparation of synthetic derivatives of Benz imidazole and evaluation for their anti-inflammatory activity. The main objective of this research work was to combine 2-mercaptobenzimidazole& aryl group toprepare more potent anti-inflammatory & analgesic derivatives. Benzimidazole derivatives were prepared by condensation of o-phenylenediamine with substituted acids in presence of acetic acid at 1000 C. After synthesis of the compounds, further studies were conducted. Study includes solubility, Rf value and melting point. The structures of the synthesized compounds were confirmed by IR, 1H NMR spectral analysis. The prepared derivatives were evaluated for anti-inflammatory activity using Carrageenan-induced paw oedema model. Results revealed that the compound 2a, 2b showed significant anti inflammatory activity and analgesic activity.

No. of Pages : 17 No. of Claims : 7

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(19) INDIA
(22) Date of filing of Application :12/05/2022

(21) Application No.202211027298 A
(43) Publication Date : 20/05/2022

(54) Title of the invention : POLYHERBAL FORMULATION HAVING SIGNIFICANT ANTIOXIDANT ACTIVITY

(51) International classification	:A61K0036480000, A61K0036750000, A61K0036510000, A61K0036610000, A61K0008970000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to the preparation of cost- effective poly herbal formulation and evaluation of its anti-oxidant activity. Poly herbal formulation comprising the components of Acacia Arabica Gum, Stems of Agrimonia Eupatoria, Bulb of Allium Cepa and Allium Sativum, Dried Leafy Juice of Aloe Vera, Nuts of Areca Catechu, Leaves of Azadirachta Indica, Camellia Sinensis, Eucalyptus Globules, Mangifera Indica, Murraya Koenigii, Ocimum Sanctum, and Stevia Rebaudiana. Roots of Boerhavia Diffusa, Glycyrrhiza Glabra, Fruits of Emblica Officinalis, Syzygium Cumini, Foeniculum Vulgare and Elettaria Cardamomum. Unripen Fruits of Musa Acuminate, Solanum Lycopersicum, and Aerial Parts of Swertia Chirayita. Wherein the prepared poly herbal formulation were formulated into any one of granules, fine powders, tablets, and capsules. The Prepared Poly herbal formulation is safe to use and free of side effects and toxicity.

No. of Pages : 10 No. of Claims : 4

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(22) Date of filing of Application :12/05/2022

(21) Application No.202211027382 A

(43) Publication Date : 20/05/2022

(54) Title of the invention : EVALUATION OF NOOTROPIC POTENTIAL OF LAGENARIA SICERARIA FRUITS ETHANOLIC EXTRACT

(51) International classification :A23L0033105000, A61K0036420000, A23L0033100000, A23L0033115000, A61K0031190000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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6)Dr. Amrita Mishra

7)Dr. Phool Chandra

8)Dr. Varsha Raj

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(57) Abstract :

The present invention relates to evaluate the nootropic potential of lagenaria siceraria fruit extract in cognitive impaired animal models to claim its traditional us. Pretreatment for 21 days with LSEE at the dose of 200 and 400 mg/kg significantly increased the memory in cognitive impared animals as compared to control group tested by Elevated plus maze and Step through passive avoidance test. From the results it concluded that the Nootropic potential of the Lagenaria siceraria fruit extract in cognitive impaired animal models is due to its direct memory enhancing activity, tested on elevated plus maze and step through passive avoidance apparatus, along with this, the significant AChE inhibiting and antioxidant property of the extract potentiates its memory enhancing activity. This relevant pharmacological activity of the LSEE may be due to presence of flavonoids and phenolic compounds in the extract.

No. of Pages : 19 No. of Claims : 5

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(22) Date of filing of Application :12/05/2022

(21) Application No.202211027477 A
(43) Publication Date : 20/05/2022

(54) Title of the invention : NOVEL PROCESS TO TEST EFFICACY OF INM ON THE GROWTH AND YIELD OF TOMATO

(51) International classification :C12N0009120000, A01N0063100000, C12Q0001220000, A01H0005080000, C05F0011080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
NOVEL PROCESS TO TEST EFFICACY OF INM ON THE GROWTH AND YIELD OF TOMATO ABSTRACT The invention provides for an eco-friendly process for testing the efficacy of INM practices on growth and yield of crop plants. Further, the invention provides for an efficient process for testing the efficacy of INM practices on the growth and yield of tomato plants.

No. of Pages : 15 No. of Claims : 7

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MORADABAD

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2022

(21) Application No.202211027824 A
(43) Publication Date : 20/05/2022

(54) Title of the invention : NOVEL ANTIMICROBIAL ACETAMIDE AND SYNTHESIS THEREOF

(51) International classification :C07D0265360000, D01F0006920000, A61K0045060000, H01F0001010000, C12P0019340000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention belongs to the field of synthetic pharmaceutical science. More, particularly the invention pertains to Synthesis and Biological Activity of novel acetamide 2-(2-acetylphenoxy)- N-cyclohexylacetamide. The novel process is for synthesis of acetamides for antimicrobial potential.

No. of Pages : 22 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2022

(21) Application No.202211027791 A
(43) Publication Date : 20/05/2022

(54) Title of the invention : HERBAL COSMETIC FORMULATION WITH AGE DEFYING PROPERTIES

(51) International classification	:A61K0008920000, A61Q0019000000, A61K0008060000, A61K0036235000, A61Q0019080000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention belongs to the field of pharmaceutical science. More, particularly the invention pertains to A herbal cosmetic emulsions having age defying potential comprises, in an effective concentration of Fennel seed oil, Coriander seed essential oil, Pumpkin seed oil, Olive oil, Neem oil and Aloe vera gel. The emulsion further comprises 7%W/V Nonionic surfactants and 5%W/V Glycerin. The herbal cosmetic emulsions having age defying potential has SPF value of 21.8.

No. of Pages : 16 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/05/2022

(21) Application No.202211027856 A

(43) Publication Date : 20/05/2022

(54) Title of the invention : MODELING AND SIMULATION FOR SERVICE POINTS IN SHEET METAL AUTOMOTIVE COMPONENT OF MANUFACTURING INDUSTRY

(51) International classification :H04W0072020000, G05B0019418000, B21D0037140000, G05B0019409700, B30B0001000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates develop a simulation method to identify the exact number of service points required in sheet metal manufacturing industry. The invention also involves the calculation of inter arrival time and service time of dies in a sheet metal working industry. Here we are talking about the sheet metal working industry in which the different components of a renowned automobile brand is to be manufacture by the application of different processes. These operations are the cutting, Forming, Punching, blanking, pressing and lots more. In the whole process of production total time is calculated by using a particular tool and the main area at which there the process is to complete is the press shop area. Press shop area is the place where presses of different tonnage and capacity is available for production work. In the concern industry there is the lack of optimum no. of service points. With this there is always a long queue of dies around the press machines in the press shop area.

No. of Pages : 16 No. of Claims : 6

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(21) Application No.202211027855 A

(43) Publication Date : 20/05/2022

(54) Title of the invention : A TRI-BAND MICROSTRIP PATCH ANTENNA WITH BACK TO BACK E-SHAPE SLOT

(51) International classification	:H01Q0009040000, H01Q0001380000, H01Q0005400000, H01Q0021060000, H01Q0015230000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present invention relates to a tri-band microstrip patch (100) antenna with back to back E-shape slot. The tri-band microstrip patch (100) antenna with back to back E-shape slot comprises a dielectric substrate, one or more rectangular microstrip patches (100) a ground plane, and a computing unit is configured to cut two back to back E shape slots into one or more rectangular microstrip patch (100) to generate a plurality of feed points and take a plurality of feed points in the patch (100) area of the one or more rectangular microstrip patches (100) antenna to achieve a tri band. The present invention provides a tri-band microstrip patch (100) antenna with back to back E-shape slot that can be suitable to work in three different frequency bands with a good amount of gain and efficiency.

No. of Pages : 18 No. of Claims : 6

Sanjeev Kumar

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2022

(21) Application No.202211028121 A

(43) Publication Date : 20/05/2022

(54) Title of the invention : DEVELOPMENT AND EVALUATION OF VORICONAZOLE LOADED NANOSTRUCTURED LIPID CARRIER BASED IN-SITU GEL OCULAR DRUG DELIVERY

(51) International classification :A61K0009000000, A61K0031506000, A61K0009060000, A61K0009107000, A61K0047140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT DEVELOPMENT AND EVALUATION OF VORICONAZOLE LOADED NANOSTRUCTURED LIPID CARRIER BASED IN-SITU GEL OCULAR DRUG DELIVERY
The invention discloses, voriconazole loaded nanostructured lipid carrier NLCs based in-situ gel formulation drug delivery system, which is subsequently evaluated for ex-vivo ocular penetration trials vs pure drug solution. The ideal NLC Ig 3 formulation demonstrated 65.87% drug release in 12 hours, indicating a much-sustained release of the drug through in-situ gel, which was then assessed for release kinetics and determined to be the best-fitting in the first order kinetics with an R2 value of 0.995. The effect of drug-loaded NLC based on in-situ gel on sustained release rises when the gelling agent is increased. The ex-vivo corneal permeability of this improved NLC Ig 3 formulation was compared to pure drug, and it was discovered that the permeation of drug in cornea was raised by 2.4 folds compared to pure medication of voriconazole in 4 hrs. These findings suggested that a voriconazole loaded NLC based in-situ gel might be used as a new drug delivery method with improved drug penetration through the cornea and prolonged drug release, resulting in a lower dosage and higher patient compliance by lowering the dosing frequency.

No. of Pages : 28 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2022

(21) Application No.202211028110 A

(43) Publication Date : 20/05/2022

(54) Title of the invention : DEVELOPMENT OF HERBAL FORMULATION OF ACHYRANTHES ASPERA FOR WOUND HEALING AND TREATMENT OF INFLAMMATION

(51) International classification	:A61K0036210000, A61K0031405000, A61K0036870000, A61K0031345000, A61P0029000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present invention relates to the preparation of methanol leaf extract of Achyranthes aspera and to evaluate its in-vivo wound healing and anti- inflammatory activities. The 80% methanol leaf extract of A. aspera was fractionated with chloroform, n-butanol and water. Wound healing and anti-inflammatory activities were evaluated using excision and incision wound models, rat paw edema and cotton pellet-induced granuloma models, respectively. For wound healing activity, fractions were evaluated at 5 and 10% ointments. The positive control groups were treated with nitrofurazone 0.2% ointment. Simple ointment treated for excision wound model and untreated for incision wound model rats were assigned as negative controls. For anti-inflammatory activity, fractions were evaluated at 100, 200 and 400mg/kg. Positive control groups were treated with indomethacin 10mg/kg for both rat paw edema and cotton pellet-induced granuloma models. The 10% w/w chloroform fraction ointment revealed high percentage of wound contraction and reduced period of epithelialization.

No. of Pages : 21 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/05/2022

(21) Application No.202211028191 A
(43) Publication Date : 20/05/2022

(54) Title of the invention : ANTIPYRETIC AND ANTIOXIDANT HERBAL TABLETS COMPOSED OF NIGELLA SATIVA AND CINNAMOMUM TAMALA

(51) International classification :A61K0036540000, A61K0036710000, A61K0031167000, A61K0009160000, A61K0009200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Herbal tablets composed of ethanolic extract of seeds of Nigella sativa and ethanolic extract of fresh leaves of Cinnamomum tamala were formulated and evaluated for in vitro DPPH assay for antioxidant potential and in vivo animal study for antipyretic potential in yeast induced pyrexia. It was found that it combination formulations showed antipyretic effect compared to standard drug Paracetamol. Formulation F1 which contains equal ratio of both extracts found to be best formulation. It shows antioxidant potential and was active against antimicrobial activity against S.aureous which causes upper respiratory infections. Tablet fail to show cytotoxic effects, so it is consider as safe herbal alternative for pyrexia. The mechanism for pyrexia may be antioxidant or antimicrobial effect.

No. of Pages : 16 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/05/2022

(21) Application No.202211026842 A
(43) Publication Date : 13/05/2022

(54) Title of the invention : ANTI-DIARRHOEAL POTENTIAL OF MORINGA OLEIFERA ROOTS EXTRACT

(51) International classification :A61K0036185000, A01N0065000000, G01N0033180000, G16H0010200000, A61K0036068000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to preparation of ethanolic extract of moringa oleifera roots and evaluation of its anti-diarrhoeal potential. The dried roots part of Moringa oleifera (0.5 kg) was powdered and extracted with ethanol. Ethanolic extract was used for the studies. Toxicity studies were performed as per OECD guidelines. The antidiarrheal effect was studied by different models in rats at dose levels 100,200 and 400 mg/kg orally. The results indicate that ethanolic extract of Moringa oleifera was found to be safe at the dose 2000 mg/kg. The extracts 100,200 and 400 mg/kg exhibited significant inhibits. The results of the experimental study confirmed that ethanolic extract of Moringa oleifera is devoid of toxicity and possesses significant antidiarrheal activity.

No. of Pages : 11 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/05/2022

(21) Application No.202211026951 A
(43) Publication Date : 13/05/2022

(54) Title of the invention : INFLUENCE OF GROUND-GRANULATED BLAST-FURNACE SLAG ON THE STRUCTURAL PERFORMANCE OF SELF-COMPACTING CONCRETE

(51) International classification :C04B0028080000, C04B0111000000, G01N0011140000, C04B0028040000, B28B0001160000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The objective of this work is to study the influence that the incorporation of metallurgical residues has on the properties in the fresh and hardened state of Self-Compacting Concrete (SCC). To this end, several batches have been made, partially replacing the natural fine aggregate with granulated blast furnace slag (GBFS) in proportions of 10 - 60%. The results obtained show the possibility of manufacturing SCC with large replacement of fine natural aggregate by granulated blast furnace slag without altering the rheology and properties in the hardened state. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6]

No. of Pages : 16 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2022

(21) Application No.202211026890 A

(43) Publication Date : 13/05/2022

(54) Title of the invention : A SYSTEM AND METHOD FOR DIELECTRIC PROPERTIES OPTIMIZATION OF POLY-VINYL PHENOL (PVP) FOR AN OFET FABRICATION

(51) International classification :H01L0021316000, H01L0021020000, G01N0021350000, B22F0001000000, G03F0007160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention discloses a system and method for Dielectric properties optimization of Poly-vinyl Phenol (PVP) for an OF ET fabrication. In the present invention, the influence of solvent used for casting PVP dielectric thin films on leakage current, dielectric constant and Opto-electronic properties of DH6T thin films deposited over these dielectric films has been analysed, and further, explored the effect of three solvents namely Methanol, Propylene glycol monomethyl ether acetate (PGMEA) and Tetrahydrofuron (THF) to cast the thin films of pristine PVP and cross-linked PVP with MMF. These solvents are widely used for the fabrication of polymer dielectrics in small molecule based OFETs. Leakage current was measured in the spin casted films of pristine and cross linked PVP using these solvents. The variation in the amount of leakage current was observed using these solvents in pristine as well as in cross linked PVP. This variation in leakage current was attributed to the variation in the amount of –OH density present at the insulator. This variation was further confirmed with the help of Fourier Transform Infrared Spectroscopy (FTIR) and capacitance versus frequency measurements. Contact angle measurement were performed to measure the surface energy of the different polymer dielectric thin films casted in various solvents.

No. of Pages : 29 No. of Claims : 6

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Ministry of Commerce & Industry,
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Application Details	
APPLICATION NUMBER	202211026852
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN BASED EFFICIENT LEARNING SYSTEM
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/05/2022

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Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/05/2022

(21) Application No.202211025486 A
(43) Publication Date : 06/05/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS BASED SMART PARKING SYSTEM IN SMART CITY

(51) International classification	:G08G0001140000, G06K0009000000, B60W0030060000, E04H0006220000, G06Q0020140000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
Essentially, an automated parking system is a system that can store, transport, and retrieve a large number of automobiles in a controlled environment. Various communication systems, such as tracking and transport systems, are included. The transport system comprises at least one vehicle-transporting movable transporter and at least one vertical transportation facility, which transports the vehicle-transporting movable transporter. If there is at least one empty parking spot in a parking area, the automatic parking system develops an appropriate layout for the parking area. The number of cars in the parking lot is used to calculate the number of vacant parking spaces in the parking lot.

No. of Pages : 20 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/05/2022

(21) Application No.202211025667 A

(43) Publication Date : 06/05/2022

(54) Title of the invention : PHYSIOLOGICAL AND BIOLOGICAL ANALYSIS OF AMARANTHUS SPINOSUS FOR NOOTROPIC MOVEMENTS IN RATS

(51) International classification :A61K0036210000, A61K0045060000, A23L0033105000, A61K0036280000, A61P0025240000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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Filing Date :NA

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(57) Abstract :
The present invention relates to that there are number of Synthetic (allopathic) drugs which are used in the treatment of mental disorders, they are helpful but synthetic drugs also have lots of side effects with the monetary problem. The Ayurveda has long tradition of treating mental disorders. Herbal drugs are playing significant role in the health care agendas worldwide, mostly due to the general faith that they are without any side effects, besides being contemptible and locally available. Recently there is a recovery of an interest in herbal medicines for the management of different aliment including CNS disorders. Experimental screening of ethanolic extracts of Stem & root of Amaranthus spinosus for brain disorders was done by Nootropic activity i.e., Elevated plus maze and the Morris water maze.
No. of Pages : 12 No. of Claims : 3

REGISTRAR
IFTM UNIVERSITY
MORADABAD

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/05/2022

(21) Application No.202211025739 A
(43) Publication Date : 06/05/2022

(54) Title of the invention : THE EFFECT OF FIBER CONTENT ON PHYSICAL, CHEMICAL PROPERTIES OF FIBER AND DUST POWDER COMPOSITE

(51) International classification :C08J0005040000, C08K0003220000, B29C0070080000, B29C0048395000, C08K0007140000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to that Basalt fiber and marble dust powder reinforced polymers composites have been investigated with different fiber length the following conclusion were drawn. The characterization of the composites reveals that the fiber length is having a significant effect on the mechanical properties of composites and also fiber content. The optimum fiber weight percentage of 8-12 % of fiber and optimum length of the fiber of 13 mm were investigated. The length of reinforced basalt fiber plays a significant impact on some mechanical properties, Impact strength of basalt fiber reinforced composite of 13 mm length shows the maximum impact energy absorption in all the percentage of fiber.

No. of Pages : 8 No. of Claims : 4

Sanjeev Sharma
REGISTRAR
IFTM UNIVERSITY
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/05/2022

(21) Application No.202211025686 A
(43) Publication Date : 06/05/2022

(54) Title of the invention : PREPARATION OF JATROPHA BIODIESEL

(51) International classification	:C10L0001020000, C11C0003000000, C12P0007640000, H01B0003440000, F02D0019060000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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5)Mr. Mohammad Javed
Address of Applicant :Assistant Professor, Department of Mechanical Engineering, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 ---------- ----------

(57) Abstract :
The present invention relates to the preparation of biodiesel, and in particular to the preparation of jatropha biodiesel. The prepared jatropa biodiesel is evaluated for the performance and emission parameters and blends in DICI engine. The emission characteristics of prepared jatropa biodiesel have been measured in engine by CO emission, CO2 emission, HC emission, O2 emission and smoke emission.

No. of Pages : 9 No. of Claims : 3

REGISTRAR
IFTM UNIVERSITY
MORADABAD

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/05/2022

(21) Application No.202211025663 A
(43) Publication Date : 06/05/2022

(54) Title of the invention : ANTI-FRICTION ADDITIVE AND METHOD FOR USING SAME

(51) International classification	:C10M0177000000, C10M0171000000, C10M0129700000, C10M0145360000, C10M0171060000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention discloses an anti-friction additive and method for using same. The main aspect of the present invention is to prepare an AW and AF additives containing artificial liquid lubricant from commercially available liquid paraffin and investigate its properties and compare with commercially available lubricants of similar nature. Further, to study the role of wear debris, of various sizes, types, and quantity, on the tribological characteristics of steel-on-steel contacts under lubricated sliding. At the onset of the work, commercially available liquid paraffin will be taken as base oil in which different quantitative of AW, AF, Anti corrosion additives will be added in different concentrations to prepare a new lubricant. This clean lubricant will be used to investigate the wear and friction behavior of steel-on-steel sliding contacts, using Timken Ok Load Tester.

No. of Pages : 21 No. of Claims : 7

Sanjeev Bansal
REGISTRAR
IFTM UNIVERSITY
MORADABAD

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/05/2022

(21) Application No.202211025687 A
(43) Publication Date : 06/05/2022

(54) Title of the invention : A SYSTEM FOR POSTURAL ANALYSIS IN THE SHOVELING PROCESS

(51) International classification :A61B0005000000, G06Q0010060000, A61B0005110000, G06Q0010100000, A61B0005103000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a system (100) for postural analysis in the shoveling process. The system (100) comprises a posture analyzing unit (102). The posture analyzing unit (102) comprises a camera unit (104), an image analyzing unit (106), a data storage unit (108), a matching unit (110), a scoring unit, and a display unit (114), and central processing. The system (100) displays a final rapid entire body assessment of the employee according to the postural analysis to get information about health-related issues of the employees and to generate risk alert signals to the companies about the employee health. The system (100) for postural analysis in the shoveling process can analyze the body postures of the employees working in the manufacturing, production, and construction industries to save them from health-related issues such as muscle pain in the lower back, and cardiovascular.

No. of Pages : 16 No. of Claims : 5

Sanjeev Bhawal
REGISTRAR
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MORADABAD

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/05/2022

(21) Application No.202211026032 A
(43) Publication Date : 13/05/2022

(54) Title of the invention : THEOPHYLLINE LOADED SUSTAINED RELEASE FLOATING MULTI-PARTICULATE ORAL DRUG DELIVERY SYSTEM

(51) International classification :A61K0009160000, A61K0009500000, A61K0009000000, A61K0031650000, A61K0009200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Oral sustained release floating multiparticulate drug delivery systems are the novel gastro retentive dosage forms based on approach of low density dosage forms using polymers that remain buoyant above gastric fluid having specific gravity of less than 1.004 g/ml. Theophylline easily absorbed from the gastrointestinal tract (GIT) and having short half life is eliminated quickly from the blood circulation. To avoid this problem, the drug-loaded floating microspheres (FM) are developed by emulsion solvent evaporation methods. FM characterized by micromeritic properties i.e. particle size, tapped density, compressibility index, true density, and flow property. Studies of percentage yield, drug entrapment, buoyancy, in vitro dissolution in 0.1N HCl were perfomed. The optimized batch was fitted in Huguchi and Koresmeyer peppas model. Morphology by SEM, Drug carrier interaction by FTIR and drug crystalline nature by XRD patterns was confirmed for Optimized A5 batch of FM. Accelerated stability studies was performed to know shelf life and stability studies was done at 45 oC 0.5 at 75% R.H for 90 days to know drug degradation rate. Capsule dosage forms filled with A5 batch FM were evaluated for physical texture, dissolution and stability studies.

No. of Pages : 14 No. of Claims : 7

Sanjeev Dwivedi
REGISTRAR
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2022

(21) Application No.202211025973 A

(43) Publication Date : 13/05/2022

(54) Title of the invention : GRAPHICAL EVALUATION OF CI ENGINE PERFORMANCE USING SESAME OIL BIO DIESEL BY VARYING INJECTION TIMING

(51) International classification :F02B0003060000, C10L0001020000, C10G0003000000, C10L0001080000, C10L0001120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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4)Mr. Arvind Chaudhary
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(57) Abstract :
The present invention relates to evaluation of CI engine performance using sesame oil biodiesel. The Sesame oil biodiesel is blended with B50.The prepared niodiesel biodiesel is evaluated for various parameters such as break thermal power, brake power, and brake specific fuel consumption. The performance of sesame oil bio diesel were done by using Graphical evaluation by comparing with the diesel.Results showed that the Sesame oil biodiesel is suitable as fuel for a diesel engine. Its B50 blend at 24° BTDC proved potentially suitable for diesel engine. Alone it can be used as diesel engine without any modifications.

No. of Pages : 15 No. of Claims : 5

Sanjeev Bhardwaj
REGISTRAR
IFTM UNIVERSITY
MORADABAD

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/05/2022

(21) Application No.202211026267 A
(43) Publication Date : 13/05/2022

(54) Title of the invention : NOVEL ANTIMICROBIAL ACETAMIDE AND ITS METHOD OF SYNTHESIS

(51) International classification	:C07D0265360000, A61K0036660000, C07D0211180000, A01N0047300000, C07K0007080000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Novel antimicrobial acetamide and its method of Synthesis The present invention belongs to the field of pharmaceutical science. More, particularly the invention pertains to Synthesis and Biological Activity of novel acetamide 2-(4-acetylphenoxy)-N-cyclohexylacetamide. The novel process is for synthesis of acetamides for antimicrobial potential.

No. of Pages : 24 No. of Claims : 4

Sanjeev Dwivedi
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/05/2022

(21) Application No.202211026316 A
(43) Publication Date : 13/05/2022

(54) Title of the invention : INJECTION MODELING AND EXPERIMENTAL VALIDATION OF DI DIESEL ENGINE FUELED WITH DIESEL AND BIODIESEL BLENDS

(51) International classification	:F02D0035020000, F02D0041140000, F02B0003060000, F02D0041240000, F02D0041000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to preparation of Injection model of diesel engine combustion the cylinder charge is assumed to be a homogeneous mixture of ideal gases at all times. The setup enables study of VCR engine performance for brake power, indicated power, frictional power, BMEP, IMEP, brake thermal efficiency, indicated thermal efficiency, Mechanical efficiency, volumetric efficiency, specific fuel consumption, A/F ratio and heat balance. The experiments are conducted for diesel fuel and jetropha biodiesel-diesel fuel blends with varying load of 0,3,6,9,12 kg. The purpose here is not to find the performance of the engine or its model at given various parameters, but to evaluate the performance of the model and compare it with the actual engine performance.

No. of Pages : 27 No. of Claims : 7

Sanjeev Bhargava
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/05/2022

(21) Application No.202211026410 A
(43) Publication Date : 20/05/2022

(54) Title of the invention : A SUNDRY-BAND ANNULAR RING-SHAPED MICROSTRIP PATCH ANTENNA WITH A DEFECTED GROUND STRUCTURE

(51) International classification	:H01Q0009040000, H01Q0001380000, H01Q0001500000, H01Q0001480000, H01Q0021080000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates a sundry-band annular ring-shaped microstrip patch antenna (100) with a defected ground structure. The sundry-band annular ring-shaped microstrip patch antenna (100) comprises a dielectric substrate, a radiation patch and a ground plate. The radiation patch has an annular radiating patch. The annular radiating patch is operationally connected with the dielectric substrate. The ground plate has defected ground structure. The ground plate is operationally connected with the dielectric substrate and annular radiating patch. The defected ground structure plate and annular radiating patch are connected to a microstrip feed line. The defected ground structure plate is a positioned beneath a microstrip feed line or antenna (100) and aligned for proper coupling to the microstrip feed line or antenna (100). The present invention provide a sundry-band annular ring shaped microstrip patch antenna (100) with defected ground structure has an efficiency of 88% and omnidirectional radiation patterns over the entire frequency band.

No. of Pages : 21 No. of Claims : 6

REGISTRAR
IFTM UNIVERSITY
MORADABAD

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/05/2022

(21) Application No.202211026556 A
(43) Publication Date : 13/05/2022

(54) Title of the invention : MICROSTRUCTURE AND WEAR FACTOR ANALYSIS OF DIFFERENT BIOMATERIAL IMPLANTS AT ARTIFICIAL ENVIRONMENTAL CONDITIONS

(51) International classification :A61L0027160000, C23C0028040000, A61L0027060000, A61L0027100000, A61F0002320000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the wear of different bio materials using pin-on-plate configuration. Three type of analysis were done.Wear debris was also collected from the machine and SEM & EDAX was performed on wear debris. Stainless steel & Titanium used as metal, Alumina as ceramic and Ultra High Molecular Weight Polyethylene (UHMWPE) & Teflon as polymer, and 5 different material combination were used. Wherein the Each Material Combination Was Run In Five Different Environments such as Air, Saline solution, Distilled Water, Ringer's Solution and Simulated Body fluid (SBF). Results showed that the Wear factors of Alumina with UHMWPE, Titanium with UHMWPE & Stainless steel with UHMWPE were high in every condition. As per the result Alumina with UHMWPE combination is very good for prosthesis.

No. of Pages : 28 No. of Claims : 6

Sanjeev Bhardwaj
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/04/2022

(21) Application No.202211025231 A
(43) Publication Date : 06/05/2022

(54) Title of the invention : FORMULATION AND EVALUATION OF GASTRO-RETENTIVE FLOATING TABLETS OF ACYCLOVIR USING HYDROTROPIC SOLUBILIZATION TECHNIQUE

(51) International classification :A61K0009000000, A61K0009200000, A61K0031522000, A61K0047260000, A61K0009240000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/04/2022

(21) Application No.202211025455 A

(43) Publication Date : 06/05/2022

(54) Title of the invention : MICROGRAPHIC INVESTIGATION OF EXPLANTED METALLIC BIOMEDICAL IMPLANTS FOR CORROSION, OTHER MECHANICAL DAMAGE RESPONSIBLE FOR FAILURE

(51) International classification :A61C0008000000, G16H0015000000, G01N0029110000, A61L0027060000, H01B0007280000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to with detailed corrosion analysis of explanted devices. The study of total 6 different types of orthopedic metallic implant was carried out after collecting the clinical report from the doctors, who performed these implantations. The clinical report covered the purpose of im- plantation, body part where implantation was done, and physiological reasons of removal of im- plant. The metallurgical investigation to study corrosion and any other mechanical damage to the implant surface during their service period was done using the Scanning Electron Micrography. SEM presented in this paper reveals the presence of in-vitro corrosion and mechanical damage as well, which are corroborating well with clinical reports.

No. of Pages : 17 No. of Claims : 2

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/04/2022

(21) Application No.202211025452 A

(43) Publication Date : 06/05/2022

(54) Title of the invention : A DIESEL ENGINE FUELED WITH DIESEL AND WATER–IN–DIESEL EMULSION USING DIFFERENT SURFACTANTS

(51) International classification :F02B0003060000, C10L0001320000, F02D0019060000, F02M0025022000, G01M0015100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to preparation of cost effective emulsion fuel for the engine, and the evaluation of its emission and performance parameters. The performance and emission characteristics of a single cylinder, 4-stroke, air-cooled, direct injection diesel engine fueled with two different emulsions were investigated. The performance and emission characteristics were studied by using AVL gas analyzer and smoke meter. The engine was run at various loads of the dynamometer o ,3, 6, 9kgs and respective readings were taken for engine performance parameters. AVL gas analyzer measure CO2, CO, HC, O2 are coming out of the engine. It measures the standard values of these emissions. The water-in-diesel emulsified fuels with different water proportions are showing similar results in both performance parameters and exhaust emissions. So emulsified fuel may also be a good objective of diesel.It may be a good future option and economic way in the energy field.

No. of Pages : 29 No. of Claims : 9

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/04/2022

(21) Application No.202211023667 A
(43) Publication Date : 29/04/2022

(54) Title of the invention : HERBAL COSMETIC FORMULATION FOR SKIN CARE

(51) International classification :A61K0008920000, A61Q0019000000, A61K0008970000, A61Q0019080000, A61K0008490000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Herbal cosmetic formulation for skin care The present invention relates to a herbal cosmetics composition comprising: 02 % (W/V) Guava leaf oil, 02 % (W/V) Wheat germ oil, 0-10 % (W/V) Jojoba oil, 0-10 % (W/V) Hemp seed oil, 5 % (W/V) Rose oil, 70 % (W/V) Aloe vera gel, 5 % (W/V) glycerin and 7% (W/V) nonionic surfactants for skin care by inhibiting the changes in stratum corneum of epidermis upon UV/Sunlight exposure, wrinkling, spongosis, collagen bundle disorientation, ultra structural changes in collagen fibers, photo allergic dermatitis, hyperkeratosis, photo aging of the follicular mouths, Liquefaction degeneration of the basal cell layer of the epidermis region.

No. of Pages : 26 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/04/2022

(21) Application No.202211023794 A
(43) Publication Date : 29/04/2022

(54) Title of the invention : DEVELOPMENT AND EVALUATION OF POLYHERBAL FORMULATION FOR TREATMENT OF HYPERLIPIDAEMIA

(51) International classification	:A61K0036470000, A61K0036906800, H04N0019610000, H04N0019460000, G11B0027300000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to the preparation of polyherbal formulation of Euphorbia hirta Linn and Zingiber officinale for the treatment of hyperlipidaemia. In this study results showed that compared to that of normal control group, Serum TG, TC, LDL, VLDL levels were significantly elevated in HFD fed rats (HFD group) and decreased in HFD+AEEH, HFD+AEZO and HFD+(AEEH+AEZO) treated group more than that of HFD fed group; indicating potential lipid lowering activity of the test drug. This study also showed that body weight gain in HFD group was increased more than of normal group, significantly decreased in HFD+AEEH, HFD+AEZO and HFD+(AEEH+AEZO) treated group. The results obtained in the present study established that high-fat diet causes hepatocellular damage, as clearly seen by the marked elevation of serum enzymes (SGOT and SGPT) activities. However, the role of extracts of Euphorbia hirta and Zingiber officinale in preventing liver damage caused by high-fat diet.

No. of Pages : 16 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2022

(21) Application No.202211023920 A

(43) Publication Date : 06/05/2022

(54) Title of the invention : MASSIVE IOT TRAFFIC FLOW FORECASTING USING TIME-AWARE LOCALITY- SENSITIVE HASHING ENABLED BY 6G

(51) International classification	:H04L0029080000, H04W0004700000, H04W0076270000, H04W0004029000, H04W0084000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/04/2022

(21) Application No.202211024018 A
(43) Publication Date : 29/04/2022

(54) Title of the invention : ANTIDIARRHOEAL POTENTIAL OF METHANOLIC EXTRACT OF ROOT BARK OF AILANTHUS EXCELSA

(51) International classification :A61K0031460000, A61K0036185000, A23L0007000000, A01N0065000000, C08G0018360000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the preparation of methanolic extract of root bark of ailanthus excels and evaluations of its anti-diarrheal activity. Root bark is traditionally used as anti-diarrhoeal agent. Antidiarrhoeal activity of methanolic extract of root bark of A. excelsa (MEA) were evaluated by castor oil induced diarrhoea and small intestinal transit method at three doses i.e. 100mg/Kg, 150mg/Kg and 200mg/Kg of the body weight of the mice. The percentage of inhibition of castor oil induced diarrhoea in MEA treated mice was 55.27%, 66.33% and 63.81% at 100mg/Kg, 150mg/Kg and 200mg/Kg, respectively. Mean distance travelled by charcoal, as % total length of small intestine (cm) is less at 150mg/Kg of the dose of MEA and is comparable with standard drug atropine sulphate which is used as positive control and statistically significant ($P < 0.01$).

No. of Pages : 12 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/04/2022

(21) Application No.202211024024 A
(43) Publication Date : 29/04/2022

(54) Title of the invention : SYNTHESIS AND ANTICONVULSANT ACTIVITY OF THIADIAZOLES DERIVATIVES

(51) International classification :C12N0009240000, C07D0487040000, C07D0285135000, B01D0011020000, C07D0209480000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the synthesis of thiadiazole derivatives and evaluated for different properties to predict its CNS activity. The drugs synthesized was synthesized by using thiosemicarbazide as a starting material which undergoes cyclization and then bromination to form the intermediate (C). The amino group of intermediate was allowed to react with different benzaldehydes to form the final product (D1-D4). The compounds were evaluated for the anticonvulsant activity by using PTZ method. The target compounds also showed mild to moderate activity. From activity, some of the target compounds have shown significant CNS activity. However, further optimization might be beneficial in the future research and development of the target compounds for the enhancement of the CNS activity.

No. of Pages : 15 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2022

(21) Application No.202211026951 A

(43) Publication Date : 13/05/2022

(54) Title of the invention : INFLUENCE OF GROUND-GRANULATED BLAST-FURNACE SLAG ON THE STRUCTURAL PERFORMANCE OF SELF-COMPACTING CONCRETE

(51) International classification :C04B0028080000, C04B0111000000, G01N0011140000, C04B0028040000, B28B0001160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
The objective of this work is to study the influence that the incorporation of metallurgical residues has on the properties in the fresh and hardened state of Self-Compacting Concrete (SCC). To this end, several batches have been made, partially replacing the natural fine aggregate with granulated blast furnace slag (GBFS) in proportions of 10 - 60%. The results obtained show the possibility of manufacturing SCC with large replacement of fine natural aggregate by granulated blast furnace slag without altering the rheology and properties in the hardened state. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6]

No. of Pages : 16 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/04/2022

(21) Application No.202211024226 A
(43) Publication Date : 29/04/2022

(54) Title of the invention : A MITIGATION OF CONGESTION USING TCPAR FACTS CONTROLLER

(51) International classification :H02J0003180000, H02J0003240000, H02J0050120000, H02J0003360000, F02D0001180000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a mitigation of congestion using the TCPAR FACTS controller (100). The TCPAR FACTS controller (100) comprises a testing unit configured to measure the voltage magnitude of the buses, a thyristor controlled phase angle regulator (102) operationally connected with the testing unit, and a set of transformer (104) operationally connected with the testing unit and the thyristor controlled phase angle regulator (102). The thyristor-controlled phase angle regulator is shunt connected with the transformer (104). The thyristor-controlled phase angle regulator is configured to manage the phase angle of sending-end bus voltage clockwise or receiving-end bus voltage in an anti-clockwise direction. The TCPAR FACTS controller (100) reduces the phase difference between the sending-end bus voltage and receiving-end bus voltage without affecting voltage magnitude to decrease line current and congestion is mitigated.

No. of Pages : 24 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/04/2022

(21) Application No.202211024577 A

(43) Publication Date : 29/04/2022

(54) Title of the invention : IOT BASED SMART FARMING FOR AUTOMATIC CROP MONITORING, IRRIGATION MANAGEMENT AND IRRIGATION OPTIMIZATION SYSTEM USING MACHINE LEARNING AND CLOUD TECHNOLOGY

(51) International classification	:G06Q0050020000, G06N0003040000, A01G0025160000, G06N0003080000, H04L0029080000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

Numerous issues have arisen as a result of the massive increase in the global population. The most critical is to ensure that there is sufficient food for everyone. Pests and diseases have a variety of negative effects on the economy. They slaughter livestock, reduce productivity, and discourage consumers from purchasing the goods they produce. Numerous crop diseases and pests can reduce yields by more than 50%, if not completely destroy the crop. Precision farming has evolved as a result of the Internet of Things (IoT) and image processing techniques for disease detection, among other advancements. Deep neural networks for plant disease detection are gaining popularity due to their ability to monitor a large field of crops and the symptoms that occur when a plant's leaves are infected with a disease.

No. of Pages : 12 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/04/2022

(21) Application No.202211024652 A
(43) Publication Date : 06/05/2022

(54) Title of the invention : TOPICAL HERBAL OINTMENT FOR WOUND HEALING

(51) International classification :A61K0036410000, A61K0009060000, A61K0009000000, G01N0033500000, G01N0033180000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/04/2022

(21) Application No.202211024662 A
(43) Publication Date : 06/05/2022

(54) Title of the invention : COCOS NUCIFERA (COCONUT) HUSK ASH AS ANTHELMINTIC DRUG SUBSTANCE

(51) International classification :A61K0035620000, H01J0037260000, G01N0021710000, F23G0007100000, G01N0023220000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the evaluate anthelmintic activity of its husk ash using adult earth worm Pheretima posthuma and Haemonchus contortus. In this work, a novel method is used to prepare the ash powder and to study the physical and chemical properties of coconut Shell Ash. Coconut Shell Ash particles were prepared in open fire hearth. Physical properties such as pH, ash content, moisture content, loss on ignition, density, surface area, pore volume and pore dia were studied. Chemical characterization study is carried out for chemical composition analysis, elements present and functional groups present. The result shows that the Ash of the epicarp of coconut fruits tested for the anthelmintic activity possessed highly significant activity in a dose dependent manner as compared to the Piperazine citrate. This ash has some active inorganic constituents which are quite active against intestinal parasites.

No. of Pages : 10 No. of Claims : 2

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2022

(21) Application No.202211021974 A
(43) Publication Date : 22/04/2022

(54) Title of the invention : BEHAVIORAL AND BIOCHEMICAL INVESTIGATION OF AMARANTHUS SPINOSUS FOR ANTISTRESS ACTIVITY

(51) International classification	:A61K0036210000, A61K0036185000, A61K0008368000, G11C0029500000, A61Q0019080000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to the preparation of extract of Amaranthus Spinosus, and evaluation for anti-stress activity. It also involves the process of preparing the extract, and screening the extract for the active constituents. The results showed that the extract contains the salicylic acid, Gallic acid, and photocatechuric acid. The prepared extract was evaluated for the anti-stress activity by using the Swimming endurance test, Anoxia stress tolerance test and Immobilization stress test.

No. of Pages : 14 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/04/2022

(21) Application No.202211021962 A
(43) Publication Date : 22/04/2022

(54) Title of the invention : PLANT LEAF DISEASE DETECTION USING MACHINE LEARNING

(51) International classification	:G06T0007000000, G06Q0050020000, A01N0043160000, G06T0007110000, A01G0007000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Agriculture ensures that all human beings have enough to eat, even in the face of fast growth in the population. It is recommended that plant diseases be predicted at an early stage in agriculture because it is necessary to provide food for the entire population. However, it is unfortunate that illnesses cannot be predicted early in the crop's development. The concept behind the invention is to raise awareness among farmers about cutting-edge technologies that can be used to reduce diseases in plant leaves. The approaches of machine learning and image processing with an accurate algorithm are identified to detect leaf diseases in the tomato plant, which is a readily available vegetable because it is the only one available. The samples of tomato leaves with abnormalities are considered in this inquiry. Farmers will be able to quickly identify diseases in tomato leaves based on the early symptoms if they have these disorder samples on hand.

No. of Pages : 20 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/04/2022

(21) Application No.202241022452 A

(43) Publication Date : 29/04/2022

(54) Title of the invention : VEHICULAR ADHOC NETWORK TO AVOID ROAD ACCIDENTS

(51) International classification :H04W0084180000, H04L0029060000, H04L0012801000, G07C0005000000, A61K0039395000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Vehicular adhoc network to avoid road accidents is the proposed invention. The proposed invention focuses on implementing the concept of vehicular adhoc networks for controlling the speed of the vehicles. The invention implements a centralized system to continuously monitor the speeding vehicles, the vehicles violating traffic rules, etc. for reducing the number of road accidents.

No. of Pages : 11 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/04/2022

(21) Application No.202211022547 A
(43) Publication Date : 22/04/2022

(54) Title of the invention : BIOACTIVE COMPOUNDS ANALYSIS AND ANTIOXIDANT ACTIVITIES OF ARTEMISIA ANNUA L. EXTRACTS

(51) International classification :A61K0036282000, A61K0008978900, A61K0047540000, A23L0033105000, A61P0039060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to analysis of bio-active compounds and preparation of ethanolic extract of Artemisia annua to evaluate the anti-oxidant potentials. Wherein the antioxidant were analyzed by using ABTS, DPPH, H2O2, -OH free radical scavenging abilities, and reducing power. A strong correlation was observed between total phenolics and ABTS, H2O2 and -OH free radical scavenging activities, whereas terpenoids displayed the highest correlation with DPPH and reducing power assay. These results concluded that the bioactive (phenolic, anthocinin, flavonoid) rich ethanolic extract of Artemisia annua L (aerial part) exhibiting highest antioxidant potential with enhanced free radical scavenging activities at lowest concentration.

No. of Pages : 17 No. of Claims : 7

REGISTRAR
IFTM UNIVERSITY
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/04/2022

(21) Application No.202211020408 A

(43) Publication Date : 15/04/2022

(54) Title of the invention : PHYTOCHEMICAL SCREENING, ANTIMICROBIAL, AND ANTIOXIDANT FREE RADICAL SCAVENGING ACTIVITY OF ORTHOSIPHON PALLIDUS

(51) International classification :A61K0036530000, C12P0021060000, A61K0031155000, C12Q0001180000, A61P0031040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a preparation of ethanoic extract of Orthosiphon pallidus(OPEE) and evaluation for their anti-microbial and anti-oxidant activity. Antimicrobial activity was investigated by using agar well diffusion method The antioxidant activity of OPEE was investigated using various in-vitro models such as 1,1-diphenyl-2-picrylhydrazyl (DPPH), total antioxidant activity, metal chelating activity, superoxide, hydroxyl, nitric oxide and total reducing power. Results showed that the Ethanolic extract was found potent in all in-vitro models. Wherein the ethanolic extract showed the significant scavenging activity against iron chelating activity. It also significantly inhibited hydroxyl & superoxide radicals. Results revealed that the bacterial strain showed highest MIC when compared to fungal strain. The antimicrobial activity of OPEE as estimated by MIC was found nearly equivalent to standard drug Chlorhexidine when used against Staphylococcus aureus, Streptococcus mutans, Bacillus coagulans and Candia albicans.

No. of Pages : 18 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/04/2022

(21) Application No.202211020405 A
(43) Publication Date : 15/04/2022

(54) Title of the invention : SIMULATION OF OPTICAL WIRELESS COMMUNICATION SYSTEM USING MATLAB

(51) International classification	:H04B0010112000, H04B0010600000, H04B0010250700, H04B0010079000, F24S0023770000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
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(57) Abstract :
The present invention relates to Optical Communication has emerged as viable technology for broadband wireless application that offers potential of high bandwidth capability. In this paper, it deals with the effect of Gaussian noise and turbulence effect, scintillation effect on the transmission line of optical medium using Matlab. Theory analysis and experimental results demonstrate that with same bandwidth used DPSK system has higher sensitivity over OOK and PSK system and this format can reduce the impairment from turbulence induced scintillation and hence is used in major optical system.

No. of Pages : 16 No. of Claims : 5

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MORADABAD

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/04/2022

(21) Application No.202211020763 A

(43) Publication Date : 22/04/2022

(54) Title of the invention : AI BASED SAFE HEALTHCARE SYSTEM FOR FERTILITY PRESERVATION FOR YOUNG WOMAN WITH BREAST CANCER USING CLOUD AND MACHINE LEARNING ALGORITHMS

(51) International classification :G06N0020000000, G16H0050200000, G16B0040000000, G16H0050700000, A61B0005000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
In the modern world, breast cancer has become a major public health issue, and people must take extra precautions to avoid it. Breast cancer patients who are diagnosed early have a better chance of survival, as early detection increases the likelihood of survival. By correctly classifying benign tumours in the first place, patients can avoid unnecessary treatments such as chemotherapy and radiation therapy. Breast cancer has been the subject of extensive research. Above all else, it's prudent to ascertain whether or not someone has cancer. Machine learning (ML) has established itself as the de facto standard for classifying and forecasting BC patterns. This is because machine learning is capable of detecting critical features in complex datasets that other methods cannot. This is true of developed as well as developing countries! Women are more likely than men to be affected. One of the primary reasons women die at a younger age than men is due to this factor. Breast cancer is a disease that is notoriously difficult to detect. Additionally, it is critical to develop a system capable of detecting breast cancer in its earliest stages, as current systems are incapable of doing so. Breast cancer is extremely dangerous and affects one in every 22 women, or 3.4 billion of the world's 7 billion people. This method is used by medical professionals to determine whether or not to perform a biopsy on a patient. While it is not perfect, it can assist physicians in determining whether or not to perform surgery. Each patient was assigned a unique set of confusion matrices and receiver operating characteristic (ROC) analysis. Alcrase is a dataset that contains approximately 16000 datasets and 30 features that can be used to evaluate the algorithm's performance on this dataset. The primary objective of this paper is for the researchers to compare the various available machine learning and deep learning algorithms.

No. of Pages : 13 No. of Claims : 9

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
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(21) Application No.202211020785 A
(43) Publication Date : 15/04/2022

(54) Title of the invention : EFFICIENT SECURITY CONTROL USING BIG DATA ANALYTICS

(51) International classification	:H04L0029080000, G16H0010600000, G06Q0050220000, A61B0005145000, A61B0005000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
As medical systems using wireless communication technology have progressed, there has been enormous development on the Internet of Medical Things (IoMT). By integrating biosensors with real-world items and using online collaboration, it is feasible to develop better healthcare applications. It has been decades since patients' physical health has been tracked, and several applications have been created to help medical teams give proper treatment. It is necessary to attach medical devices to patients' bodies, which are then connected to a cloud computing system to collect and process healthcare data. On the other hand, these medical devices depend on battery-powered sensors and have limited memory, transmission, and processing resources to work with. As a result, they are not optimal. Many cloud-based healthcare systems are assisting the community in keeping track of patients' conditions more effectively; however, they all suffer from latency concerns regarding data collection and storage. To provide distributed and timely computing of a decision-oriented medical system employing Secured Big Data analytics and Edge–Cloud architecture, SBD-EC was developed (SBD-EC). The mobile edges also collaborate with the cloud to deliver a secure algorithm that ensures reliable availability of medical data while maintaining the privacy and safeguarding against hazardous actions.

No. of Pages : 20 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2022

(21) Application No.202211020970 A
(43) Publication Date : 15/04/2022

(54) Title of the invention : DEVELOPMENT AND CHARACTERIZATION OF HERBAL FORMULATION OF SESAMUM INDICUM FOR THE TREATMENT OF GASTRIC ULCERS

(51) International classification :A61F0005000000, A61K0036185000, A61K0036580000, C08F0210180000, C07F0007080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the preparation of herbal formulation of sesamum indicum for the treatment of gastric ulcers. The prepared herbal formulation was effective against pyloric ligation induced ulcer model and indomethacine induced ulcer model. It explain about the process for the preparation of the herbal formulation and also includes the method for the treatment of gastric ulcer by using the prepared formulation.

No. of Pages : 17 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2022

(21) Application No.202211020969 A
(43) Publication Date : 15/04/2022

(54) Title of the invention : A SYSTEM AND WEARABLE DEVICE FOR EMPLOYEE WELLNESS TRACKING AND IMPROVING WORK-LIFE BALANCE

(51) International classification :A61B0005000000, A61B0005110000, A61B0005160000, A61B0005020500, A61B0005024000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a system (100) for employee wellness tracking and improving work-life balance. The system (100) comprises a wearable device (102), a data storage unit (104), and a monitoring unit (106). The wearable device (102) is configured to detect the abnormal condition of the health, stress level of the user and generate an alert on detection of the abnormal condition of the health of the user. The wearable device (102) comprises wearable unit wear, a central processing unit, and an alert generating unit. The monitoring unit (106) is operationally connected with the wearable device (102) and data storage unit (104). The monitoring unit (106) comprises a processor and a display unit. The present invention provides a system (100) and wearable device (102) for employee wellness tracking and improving work-life balance that can enhance current employee wellness.

No. of Pages : 14 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2022

(21) Application No.202211021183 A
(43) Publication Date : 15/04/2022

(54) Title of the invention : SYNTHESIS AND CHARACTERIZATION OF INDOLE DERIVATIVES FOR ANALGESIC ACTIVITY

(51) International classification	:C07D0413140000, B29C0065000000, A61B0005070000, C07D0209140000, C07D0209280000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to the synthesis and characterization of indole derivatives for analgesic activity. 2-chloro-1(indoline-1-yl) ethanone was reacted with various substituted phenols to obtained different derivatives. The formed derivatives were further analyzed by TLC, melting point, IR and NMR. Further the synthesized compound were evaluated for in-vivo analgesic activity on various models like Eddy's hot plate (thermal pain induction), acetic acid induced writhing's (chemical induced pain), and Haffner's tail clip method (mechanical pain induction).

No. of Pages : 18 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/04/2022

(21) Application No.202211021394 A

(43) Publication Date : 15/04/2022

(54) Title of the invention : A NEURAL NETWORK-BASED SYSTEM FOR DIAGNOSTICS OF ASTHMA

(51) International classification :G01N0027120000, G01N0033000000, G06N0003080000, A61B0005000000, A61B0005097000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention provides a system for a neural network-based diagnostics of asthma. The system is comprised of, but not limited to, an array consisting of five semiconductor gas sensors; a neural network using a backpropagation algorithm for detection. After the results, the present model ensures the proper accuracy and consistent results. Further, the sensor array along with the data acquisition system is developed for the non-invasive detection of asthma; five data sets of asthma-related toxic gas in different concentrations are obtained by a signal acquirement system having a tin oxide gas sensor array; wherein obtained data are put for training and analysis on Artificial Neural Network (ANN). Furthermore, the outcomes show good classification of asthma-associated exhaled toxic gas with the ambient air using only a few samples and also present the efficiency of Feedforward Back Propagation Neural Network on the data-driven from different gas sensors.

No. of Pages : 29 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/03/2022

(21) Application No.202211016130 A

(43) Publication Date : 01/04/2022

(54) Title of the invention : FORMULATION DEVELOPMENT AND EVALUATION OF POLY-HERBAL NANO-EMULGEL FOR TOPICAL DRUG DELIVERY

(51) International classification :A61K0009000000, A61Q0019000000, A61K0031355000, A61K0008670000, A61K0031120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The endeavor of present research is to formulation and development of Curcumin loaded nano-emulgel (NEG's) formulations together with its evaluation for anti-oxidant potential. Curcumin loaded NEG's has been formulated using curcumin and polymers, i.e. carbopol 934, methyl paraben, propyl paraben, propylene glycol, tween 80, linseed oil and vitamin E in different ratio as antioxidant, emulsifier, preservative based on solubility and emulsification potentiality. NEG's has been formulated by blending two separate phases; aqueous phase (tween 80) and non-aqueous phase (propylene glycol, methyl and propyl paraben, flax seed oil and vitamin E) at 700c using high speed homogenization technique. Five formulations have been formulated and characterized by various parameters i.e. physical examination, pH measurement, viscosity, spreadibility, extrudability, Particle size, Zeta potential, anti-oxidant(in-vitro), permeation studies, IR and DSC analysis. NEG's were formulated using curcumin, vit. E, flax seed oil, emulsifiers as well as preservatives and results were excellent and reproducible. All formulations were analyzed for skin permeability through using Franz diffusion cell. Five poly-herbal nano-NEG's formulations have been developed and characterized, among them F3 formulation showing excellent results with zeta potential (29.2), particle size (890.3nm) and sharp peak (83.330c) DSC analysis. F3 formulation also showing excellent anti-oxidant potential with IC50 value of 2.17 and was comparable with that of standard (1.23±2.14) respectively. Curcumin based nano-NEG's have been formulated and characterized showed excellent anti-oxidant potential and found to be stable as indicated by zeta potential with particle size (890.3nm). This formulation showed excellent results can be used for cosmetic purposes.

No. of Pages : 29 No. of Claims : 6

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2022/08231 ~ Complete ~54:METHOD FOR MODIFYING CARBON FIBER AND PRODUCT THEREOF ~71:Anhui Polytechnic University, BeiJing Middle Road, JiuJiang District, Wuhu, Anhui, 241000, People's Republic of China;ZHEJIANG SCI-TECH UNIVERSITY, 928, No.2 Baiyang Street, Economic And Technological

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(57) Abstract :
The present invention discloses a system for providing stable transmission control unit for congestion control in IoT environment. The system includes, but not limited to, at least one processing unit; a non-transitory computer-readable media storing instructions which, when executed by the one or more processors, cause: at least one processing unit; non-transitory computer-readable media storing instructions which, when executed by the one or more processors, cause: compute ECD factor based on available bandwidth, round trip time and queue size of the most congested channel on the path; wherein the round trip time is describe as the time it takes by a package to make its journey from source to destination and back; wherein the bandwidth is calculated using RTT and packet size; and wherein the queue size of the most congested link is estimated with the help of RTT, RTTmin and cwnd.

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(57) Abstract :
A formulation of compounds that would to modulate inflammation is disclosed. The present invention relates to herbal composition for the treatment or prevention of carrageenan induce inflammation and CFA induce arthritis in mammals comprising methotrexate and lupeol, wherein lupeol is extracted from Betula alnoides. The herbal composition comprises the concentration of lupeol in the range of 5-20mg per kg body weight of rat and 0.3 ml of methotrexate.

No. of Pages : 20 No. of Claims : 7

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Application Details	
APPLICATION NUMBER	202211018972
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/03/2022
APPLICANT NAME	1 . Prof. (Dr.)Rahul Kumar Mishra 2 . Dr.R.Balakrishna 3 . Dr. Shantanu Pandurang Kanade 4 . Dr. Narayan swamy 5 . Dr. Anuradha Shantanu Kanade 6 . Dr. Madhulika Mishra 7 . Dr. N Ramkumar 8 . Mrs. G.Aparna 9 . Mr. Mohd Anas Wajid 10 . Mr.Aabhas Mathur 11 . Mr.Raja Raju 12 . Dr.Reshma V.K
TITLE OF INVENTION	IOT WITH DEEP LEARNING BASED AUTOMATIC EYE CATARACT DETECTION USING MATLAB APPROACH
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
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PUBLICATION DATE (U/S 11A)	08/04/2022

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/03/2022

(21) Application No.202211019222 A

(43) Publication Date : 08/04/2022

(54) Title of the invention : EARLY AND ACCURATE DETECTION OF CARDIOVASCULAR DISEASE USING MACHINE LEARNING TECHNIQUES

(51) International classification :G16H0050200000, G06N0020000000, G16H0050700000, C12Q0001688300, A61B0005020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
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(57) Abstract :
The development of coronary artery disease (CAD), a condition that affects millions of people throughout the globe, is impacted by several modifiable risk factors. Predictive models developed using machine learning (ML) algorithms may aid doctors in the early diagnosis of coronary artery disease (CAD) and improving outcomes. Materials and procedures: In this invention, we used different machine learning algorithms to predict the existence of coronary artery disease (CAD) among individuals who were part of the 'Cleveland dataset.' The computer code that was produced is supplied as a functional open source solution with the ultimate objective of developing a viable clinical tool for identifying coronary artery disease.

No. of Pages : 18 No. of Claims : 5

REGISTRAR
IFTM UNIVERSITY
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/08/2022

(21) Application No.202211044302 A

(43) Publication Date : 19/08/2022

(54) Title of the invention : ANTIANXIETY COMPOUND 7-(2-(2-(3-(4-CHLOROPHENYL) ACRYLOYL) PHENOXY) ETHOXY)-4-METHYL-2H-CHROMEN-2-ONE AND SYNTHESIS THEREOF

(51) International classification :G01N0021640000, C07C0213020000, C07B0061000000, C07D0295088000, C07C0269040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention belongs to the field of pharmaceutical science. More, particularly the invention pertains to synthesis and antianxiety activity of novel compound 7-(2-(2-(3-(4-chlorophenyl) acryloyl) phenoxy) ethoxy)-4-methyl-2H-chromen-2-one. The novel process involved mixing of 0.004 mole of 7-(2-bromoethoxy)-4-methyl-2H-chromen-2-one and 0.004 mole 3-(4-chorophenyl)-1-(2-hydroxyphenyl) prop-2-en-1-one was dissolved in 100 ml of anhydrous acetonitrile in a 250 ml round bottom flask. 0.008 mole of anhydrous potassium carbonate and catalytic amount of potassium iodide were added into above solution. The above mixture was refluxed for 12 h. After completion of reaction, the reaction mixture was filtered and solvent was removed under reduced pressure to obtain the 7-(2-(2-(3-(4-chlorophenyl) acryloyl) phenoxy) ethoxy)-4-methyl-2H-chromen-2-one. The obtained compound was washed with water and recrystallized from ethanol to afford the 7-(2-(2-(3-(4-chlorophenyl) acryloyl) phenoxy) ethoxy)-4-methyl-2H-chromen-2-one.

No. of Pages : 15 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202211013853 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : WIDEBAND POLYGON RING MICROSTRIP ANTENNA WITH STRUCTURE SHAPED GROUND

(51) International classification	:H01Q0009040000, H01Q0001380000, F03B0017060000, H01Q0013080000, H01Q0001480000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to a wideband polygon ring microstrip antenna (100) with a structure-shaped ground. The wideband polygon ring microstrip antenna (100) with structure-shaped ground comprises a hexagonal ring shape microstrip antenna (100). The hexagonal ring shape microstrip antenna (100) has a rectangular notch at the right and left-hand sides of the outer hexagonal structure of dimensions Lp3 × Wp3; and a ground plane. The width of the hexagonal ring shape microstrip antenna (100) line is Wp1 = 5.0 mm. The width of the hexagonal ring shape microstrip antenna (100) is taken to achieve a 50O characteristic impedance. The width of the hexagonal ring shape microstrip antenna (100) is fabricated and printed on a commercially available FR-4 substrate having thickness h = 1.6 mm. The present invention provides a wideband polygon ring microstrip antenna (100) with structure-shaped ground that can avoid the use of two or multiple antenna (100) to transmit video, voice, and data simultaneously.

No. of Pages : 16 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/03/2022

(21) Application No.202211014287 A

(43) Publication Date : 01/04/2022

(54) Title of the invention : ANDROGRAPHOLIDE AND PIPERINE LOADED HERBOSOMAL FORMULATION OF FOR ENHANCEMENT OF HEPATOPROTECTIVE AND ANTIOXIDANT ACTIVITY

(51) International classification :A61K0009000000, A61K0009140000, A61K0009510000, A61K0031365000, A61K0009060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Andrographis paniculata extract water-soluble show good pharmacological activity possesses low bioavailability. Andrographolide extract along with piperine (a nutraceutical bioenhancer) was formulated as a herbosomal formulation in the present study and investigated to resolve the poor solubility and enhance hepatoprotective and antioxidant studies of APLH (Andrographolide and piperine loaded herbosomes) complex. The APLH formulation analysed by the help of different evaluation parameter like entrapment efficiency, DSC, SEM, zeta sizer , PDI, Zeta potential, In-vitro drug release kinetics, Ex-vivo permeation studies of APLH lipid complex, antioxidant, and In-vivo hepatoprotective studies. The APLH formulation particle size, PDI, zeta potential and entrapment efficiency were found to be 393.21, 0.334, -30, 82.21% and DSC demonstrated that APLH interact physically with lipid within the herbosomes. Formulation also exhibited a significantly prolonged release of APLH lipid complex in dissolution studies. APLH formulation has shown good antioxidant activity than Andrographolide and Piperine Pure Mixture, APLH formulation has shown more prolonged liver protective activity on the basis of their SGOT, SGPT, ALP and total bilirubin. The APLH formulation has a sustained releasing feature, which means it has the potential to work for a long time inside the body. The results of the study have shown that formulation can improved with poor solubility, permeability, and hepatoprotective efficacy when compared to pure extract and showed better result than standard drug silymarin. The study shows that phospholipid-based APHL lipid complex is a promising and viable strategy for improving the delivery of herbal extract with poor bioavailability.

No. of Pages : 23 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202211014305 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : FORMULATION AND DEVELOPMENT OF ORAL DISINTEGRATING TABLET OF METOPROLOL TARTRATE

(51) International classification :A61K0009000000, A61K0009200000, A61K0047260000, A61K0031138000, A61K0047380000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the preparation of oral disintegrating tablets of Metoprolol tartrate, using various pharmaceutical compositions to enhance patient compliance. Metoprolol tartrate was formulated into orally disintegrating using the direct compression method and suitable excipients such as Carbopol 934P, HPMC, carboxy methyl cellulose, Mannitol and ethyl cellulose. The prepared tablets are evaluated for weight variation, thickness, hardness, friability, disintegration time, a simulated wetting test, and in-vitro dissolution. The drug content of all the formulations were in the range of 90.19±0.71%to 99.51±0.07%. Optimized formulation was selected by using the higher mucoadhesive time, mucoadhesive force and higher ex-vivo permeation. Out of all the prepared formulations formulation (F6) was considered as optimize formulations.

No. of Pages : 22 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/03/2022

(21) Application No.202221015019 A

(43) Publication Date : 08/04/2022

(54) Title of the invention : MICROWAVE MEDIATED SYNTHESIS AND CYTOTOXIC EVALUATION OF NOVEL SUBSTITUTED S-TRIAZINE DERIVATIVES

(51) International classification	:C07D0251700000, C07K0005087000, C07D0519000000, G16B0005000000, C07D0303320000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present work deals with Microwave mediated synthesis of 2,4,6-triamino-1,3,5-triazine derivatives based on stepwise nucleophilic substitution of chloro group in cyanuric acid at different temperatures with various amines. The study of the comparison of the obtained results of the microwave mediated irradiation and conventional heat method was carried and found that microwave mediated synthesis process increased the yield of products and reactions were completed in lesser time. So the MW irradiation method is better approach for synthesis 1,3,5-triazine derivatives. The procedure of synthesis is simple, lesser time consuming with higher yield. 1,3,5-triazine derivatives also exhibited anti-ulcer, anti-inflammatory, anti-depressant and antiviral activities. All the synthesized derivatives of 2,4,6-triamino-1,3,5-triazine derivative were synthesized and confirmed by physical and spectral analysis. The synthesized compounds were characterized by IR, 1HNMR and Mass spectral data. All the synthesized compounds show characteristic absorption peaks in IR and NMR spectra. Expected molecular ion peak (M+) fragments were observed for the entire compounds in mass spectra. Cancer is one of the most prominent human diseases which has enthused scientific and commercial interest in the discovery of newer anticancer agents from synthesized derivatives. Cytotoxic activity was carried out against breast cancer cell lines. It is found that all the synthesized compounds have significant cytotoxic activity against both MCF-7 and T47D breast cancer cell lines using MTT assay method. Invitro cytotoxic activity of synthesized compounds was carried out by MTT assay method using two breast cancer cell lines (MCF-7, T47D). All the synthesized compounds have significant cytotoxic activity. Newly synthesized compounds have shown promising anticancer activity.

No. of Pages : 17 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/03/2022

(21) Application No.202211015478 A

(43) Publication Date : 01/04/2022

(54) Title of the invention : POLYHERBAL DEORDORIZING, BLEACHING AND ANTIMICROBIAL FORMULATION FOR DENTAL CARE

(51) International classification	:A61Q0011000000, A61K0008970000, A61K0009000000, A61K0008190000, C08G0018500000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present invention relates to a preparation of traditional Indian herbal powder for dental care and its evaluations. Standardization of tooth powder were done by testing pH, tapped density, ash values, moisture content, phytochemical screening, microbial contamination. The herbs used in the powder may contain secondary plant metabolites, so the developed combination may prove efficient for dental care and the various therapeutic uses. Preparation method was simple and cost- effective. The prepared combination is efficient in curing the yellow teeth, dental caries, and gingivitis. The dental care powder is recommended to use infants, i.e the powder is high in safety and free of side effects.

No. of Pages : 17 No. of Claims : 6

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The Trade Marks Act, 1993
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2022/07046 ~ Complete ~54:MIST INHALER DEVICES ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, P.O. Box 35665 34th & 35th Floor, Al Maqam Tower ADGM Square Al Maryah Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~ 33:IB ~31:PCT/IB2019/060808 ~32:15/12/2019;33:IB ~31:PCT/IB2019/060810 ~32:15/12/2019;33:IB ~31:PCT/IB2019/060811 ~32:15/12/2019;33:IB ~31:PCT/IB2019/060812 ~32:15/12/2019;33:EP ~31:20168231.7 ~32:06/04/2020;33:EP ~31:20168245.7 ~32:06/04/2020;33:EP ~31:20168938.7 ~32:09/04/2020

2022/07047 ~ Complete ~54:A HOOKAH DEVICE ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, P.O. Box 35665 34th & 35th Floor, Al Maqam Tower ADGM Square Al Maryah Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~ 33:US ~31:17/122,025 ~32:15/12/2020;33:US ~31:17/220,189 ~32:01/04/2021;33:GB ~31:2104872.3 ~32:06/04/2021

2022/07060 ~ Complete ~54:METHODS FOR TREATING AND/OR PREVENTING IDIOPATHIC PNEUMONIA SYNDROME (IPS) AND/OR CAPILLARY LEAK SYNDROME (CLS) AND/OR ENGRAFTMENT SYNDROME (ES) AND/OR FLUID OVERLOAD (FO) ASSOCIATED WITH HEMATOPOIETIC STEM CELL TRANSPLANT ~71:Omeros Corporation, 201 Elliott Avenue West, SEATTLE 98119, WA, USA, United States of America ~72: DEMOPULOS, Gregory A.;DUDLER, Thomas A.~ 33:US ~31:62/940,720 ~32:26/11/2019;33:US ~31:62/940,735 ~32:26/11/2019

2022/07068 ~ Complete ~54:WATER-SOLUBLE UNIT DOSE ARTICLE ~71:The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: BULLIVANT, Timothy;LANG, Helen Amy;MCGUCKIN, Nicholas Alexander Jesse;ROBLES, Eric San Jose;TANTAWY, Hossam Hassan~ 33:EP ~31:20177724.0 ~32:01/06/2020

2022/07023 ~ Complete ~54:FLEXIBLE DRIVING MANIPULATOR ~71:SICHUAN POLICE COLLEGE, 186 Longtouguan Road, Jiangyang District, Luzhou City, Sichuan Province, People's Republic of China;Sichuan University of Science & Engineering, 519 Huixing Road, Ziliujing District, Zigong City, Sichuan Province, People's Republic of China ~72: GAO Jianjie;LIAO Yinghua;LIU Yihan;YANG Hang;ZHOU Junchao~

2022/07017 ~ Complete ~54:PORTABLE METAL HARDNESS DETECTOR ~71:INNER MONGOLIA AUTONOMOUS REGION INSTITUTE OF PRODUCT QUALITY INSPECTION, COMPREHENSIVE BUILDING OF FORMER QUALITY SUPERVISION BUREAU, NO. 26 WUHAI EAST STREET, People's Republic of China ~72: DUAN, Bin;GE, Jinliang;YUN, Jianbin;ZHANG, Wenqing~

2022/07028 ~ Complete ~54:INTERNET OF THINGS ENABLED SWITCH CONTROLLING SYSTEM AND METHOD FOR PLANT TISSUE CULTURE LABORATORY ~71:LOVELY PROFESSIONAL UNIVERSITY, Jalandhar-Delhi G.T. Road, Phagwara, Punjab, India ~72: Ankita;D, Narenthira Prasath;SHARMA, Neeta Raj~ 33:IN ~31:202111055785 ~32:02/12/2021

2022/07032 ~ Complete ~54:METHOD FOR GRAFTING RADISH TO PRESERVE MATERIALS ~71:Weifang Academy of Agricultural Sciences, No. 1921, Shengli East Street, Kuiwen District, Weifang City, Shandong Province, People's Republic of China ~72: HAN Taili;SONG Yinhang;SUN Jifeng;SUN Shasha;TAO Jinxian;XU Ligong;YANG Xiaodong;ZHOU Luhong~

2022/07034 ~ Complete ~54:NORFLOXACIN REVERSE GELATINIZATION GEL: DEVELOPMENT, CHARACTERIZATION, AND EVALUATION ~71:DR. ABHISHEK TIWARI, PHARMACY ACADEMY, IFTM UNIVERSITY --- PHARMACY & AMP; VOCATIONAL, LODHIPUR RAJPUT, MORADABAD, UTTAR PRADESH, 244102, India;DR. ANAND PODDAR, PODDAR INTERNATIONAL COLLEGE, SECTOR-7, NEAR SJIPRA PATH, MANSAROVAR, JAIPUR, RAJASTHAN, 302020, India;DR. ARVIND KUMAR, S.D. COLLEGE

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2022/07044 ~ Complete ~54:HOOKAH DEVICE ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, P.O. Box 35665, 34th and 35th Floor, Al Maqam Tower, ADGM Square, Al Maryah Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~ 33:EP ~31:20168231.7 ~32:06/04/2020;33:EP ~31:20168245.7 ~32:06/04/2020;33:EP ~31:20168938.7 ~32:09/04/2020;33:US ~31:16/889,667 ~32:01/06/2020;33:US ~31:17/065,992 ~32:08/10/2020;33:US ~31:17/122,025 ~32:15/12/2020;33:US ~31:17/220,189 ~32:01/04/2021

2022/07049 ~ Complete ~54:MACROCYCLES FOR USE IN TREATING DISEASE ~71:TURNING POINT THERAPEUTICS, INC., 10628 Science Center Drive, Ste. 200, San Diego, California, 92121, United States of America ~72: DAYONG ZHAI;EVAN W ROGERS;JANE UNG;JINGRONG J CUI;VIVIAN NGUYEN;WEI DENG~ 33:US ~31:62/943,098 ~32:03/12/2019;33:US ~31:63/015,937 ~32:27/04/2020

2022/07058 ~ Complete ~54:USE OF HYALURONIC ACID DERIVATIVES IN THE REGENERATION OF BONE AND CARTILAGE TISSUES ~71:TRB CHEMEDICA INTERNATIONAL SA, Rue Michel-Servet 12, Switzerland ~72: Demetrio MANENTI;Giuliana ABBIATI~ 33:IT ~31:102019000025126 ~32:20/12/2019

2022/07063 ~ Complete ~54:BEVERAGE PREPARATION MACHINE ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: TALON, Christian;VUAGNIAUX, Didier~ 33:EP ~31:19213419.5 ~32:04/12/2019

2022/07011 ~ Provisional ~54:FLOAT ARRANGEMENT ~71:DYNAMIC FLUID CONTROL (PROPRIETARY) LIMITED, 32 Lincoln Road, Benoni South, Gauteng, 1501, South Africa ~72: JONATHAN SUTER;TREVOR VEAL~

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/03/2022

(21) Application No.202211016130 A

(43) Publication Date : 01/04/2022

(54) Title of the invention : FORMULATION DEVELOPMENT AND EVALUATION OF POLY-HERBAL NANO-EMULGEL FOR TOPICAL DRUG DELIVERY

(51) International classification :A61K0009000000, A61Q0019000000, A61K0031355000, A61K0008670000, A61K0031120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The endeavor of present research is to formulation and development of Curcumin loaded nano-emulgel (NEG's) formulations together with its evaluation for anti-oxidant potential. Curcumin loaded NEG's has been formulated using curcumin and polymers, i.e. carbopol 934, methyl paraben, propyl paraben, propylene glycol, tween 80, linseed oil and vitamin E in different ratio as antioxidant, emulsifier, preservative based on solubility and emulsification potentiality. NEG's has been formulated by blending two separate phases; aqueous phase (tween 80) and non-aqueous phase (propylene glycol, methyl and propyl paraben, flax seed oil and vitamin E) at 700c using high speed homogenization technique. Five formulations have been formulated and characterized by various parameters i.e. physical examination, pH measurement, viscosity, spreadibility, extrudability, Particle size, Zeta potential, anti-oxidant(in-vitro), permeation studies, IR and DSC analysis. NEG's were formulated using curcumin, vit. E, flax seed oil, emulsifiers as well as preservatives and results were excellent and reproducible. All formulations were analyzed for skin permeability through using Franz diffusion cell. Five poly-herbal nano-NEG's formulations have been developed and characterized, among them F3 formulation showing excellent results with zeta potential (29.2), particle size (890.3nm) and sharp peak (83.330c) DSC analysis. F3 formulation also showing excellent anti-oxidant potential with IC50 value of 2.17 and was comparable with that of standard (1.23±2.14) respectively. Curcumin based nano-NEG's have been formulated and characterized showed excellent anti-oxidant potential and found to be stable as indicated by zeta potential with particle size (890.3nm). This formulation showed excellent results can be used for cosmetic purposes.

No. of Pages : 29 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/02/2022

(21) Application No.202211009293 A

(43) Publication Date : 25/02/2022

(54) Title of the invention : RETAIL MERCHANDISING AIDED BY SHOP DISPLAY SYSTEMS

(51) International classification	:A47F0003000000, G06Q0030020000, G06Q0030060000, A47F0005080000, A47F0003040000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present invention is a retail merchandising aided by shop display systems: comprises of, three or more display modules but at least 3 should be available therein, once side of the display structure should be open and provided space to access it, but the other side is closed thereby pivoted vertically to provide the provision for fastening it firmly, therein displaying the items have a better space along with facility is given to the system that it state the items placed in the display modules while pressing the corresponding button provided to the individual display unit. It is ergonomically designed and display the items accordingly. It is a voice over providing the option of while changing the items thereby the provision given to edit the voice content.

No. of Pages : 12 No. of Claims : 10

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Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 101 023

Bezeichnung:

System zur Kartierung digitaler Feldbilder für die Vorhersage der Saatgut-Erntefeuchtigkeit unter Verwendung von Maschinenlernmodellen

IPC:

G06Q 50/02

Inhaber/Inhaberin:

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Tag der Anmeldung:

23.02.2022

Tag der Eintragung:

11.03.2022

Die Präsidentin des Deutschen Patent- und Markenamts

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München, 11.03.2022

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Den aktuellen Rechtsstand und Schutzumfang entnehmen Sie bitte dem DPMAregister unter www.dpma.de.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2022

(21) Application No.202211010149 A
(43) Publication Date : 04/03/2022

(54) Title of the invention : FORMULATION OPTIMIZATION STUDY OF TASTE MASKED DRUG RESIN COMPLEX OF LEVOCETRIZINE HYDROCHLORIDE USING ION EXCHANGE RESIN

(51) International classification :A61K0031495000, A61K0009000000, A61K0008490000, H04W0024100000, C12N0015880000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to development of Mouth dissolve tablets(MDT) which mask the bitter taste of Levocetirizine HCl using cation-exchange resins. Tulsion 335 was selected as weak acid-cationic resin because of exchangeable cationic moiety of the drug. The drug resin complexes were prepared by batch process. The swelling time, stirring time and ratio drug: resin was found to affect the masking of taste and drug loading of the complex. A 2 3 full factorial design was employed to study the effect of independent variables; swelling time (X1), stirring time (X2) and drug: resin ratio (X3) on the dependent variables; i.e., % drug loading and taste masking. The mouth dissolve tablets of Levocetirizine HCl had sufficient crushing strength (2.5 to 3.5 kg/cm2), friability (< 0.5%), wetting time (26 sec) and disintegration time (28 sec). It concludes wet granulation technique would be an effective alternative approach in the formulation of MDT.

No. of Pages : 27 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2022

(21) Application No.202211010459 A
(43) Publication Date : 17/06/2022

(54) Title of the invention : A SYSTEM FOR INFORMATION MANAGEMENT IN COMPUTERIZED INJECTORS

(51) International classification :G09B0023280000, G09B0019240000, G09B0019000000, G09B0005060000, A61M0005200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The invention relates to a method for determining an injection quantity of an injector which is associated with a cylinder of an internal combustion engine wherein the internal combustion engine has at least two injectors and wherein the injectors are equalized in a first step and an absolute correction of the injectors is carried out in a second step. The invention provides a handheld device for training a user in operating an auto-injector. The device has a screen and a sensor that can quantify the physical activity of the device. A visual representation of the auto-injector and visual instruction for a desired use of the auto-injector is presented on the screen while the user is requested to manipulate the handheld device as if it was the auto-injector. By use of the sensor data the device evaluates the performance of the user and determines a level of compliance with the instructions. Accordingly, the invention provides increased safety in the use of auto. The whole process is defined in figure 1 of the invention.

No. of Pages : 25 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/03/2022

(21) Application No.202221011536 A

(43) Publication Date : 18/03/2022

(54) Title of the invention : A PRACTICE OF TOTAL COST MANAGEMENT FOR INTEGRATED PRODUCT AND PRODUCTION DATA MANAGEMENT

(51) International classification :G06Q0010060000, G06Q0010040000, G06Q0030020000, P25D0023060000, G06Q0040000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
One of the problems of integrated product and production data management is synchronising product cost data throughout the product lifecycle. Towards this purpose, this study covers comprehensive cost management. A feature-based product pricing strategy is suggested by tying cost-related design aspects to conventional time estimates. To connect old product and production data management systems, diverse viewpoints on costing data are harmonised, comprising target costing, product costing, cost control, and cost accounting. A case study of refrigerator manufacturing is provided to show the practicality and promise of the suggested technique.

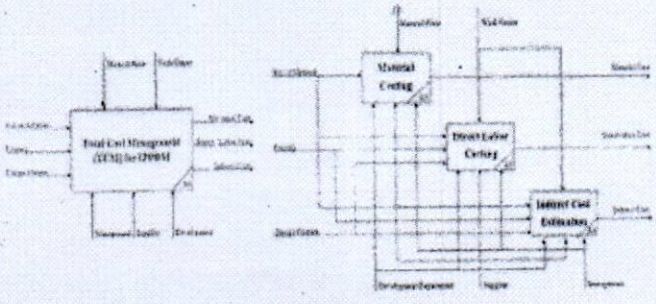


Fig. 1 depicts functional modelling of TCM-IPPDM (IDEF0)

No. of Pages : 11 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202211012158 A
(43) Publication Date : 11/03/2022

(54) Title of the invention : CIPROFLOXACIN HYDROCHLORIDE LOADED NANO MICELLE FOR OCULAR DRUG DELIVERY SYSTEM USING NON-IONIC ECO-FRIENDLY SURFACTANT

(51) International classification :A61K0009107000, A61K0009000000, A61K0047340000, A61K0009510000, B82Y0005000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the preparation of pluronic based Nano micelles of Ciprofloxacin Hydro chloride for ophthalmic drug delivery. pluronic-based micelles were prepared for ophthalmic delivery by incorporation of methyl alcohol as a dispersion agent and their surfaces were also modified by chitosan to improve their bioavailability. A Solvent emulsification by using the triblock copolymer method in aqueous system was employed.The physicochemical characterization of Pluronic-Chitosan nanomicelle including diameter, surface charge, morphology, turbidity, and entrapment efficiency demonstrates that they are very suitable as ophthalmic carrier. Furthermore, the in-vitro and ex- vivo studies indicate these micelles have sustained release behavior and good response. The mean particle size was found to be 233.4 nm with a small polydispersity index, 0.075. The % Entrapment efficiency of nanomicelle was more than 95 percent. After microbiological study, we can conclude that the nanomicelle are active against E. coli.

No. of Pages : 29 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2022

(21) Application No.202211012800 A
(43) Publication Date : 18/03/2022

(54) Title of the invention : SYNTHESIS AND ANTIPSYCHOTIC ACTIVITY OF 1-(4-(2-(4-PHENYLPIPERAZIN-1-YL) ETHOXY) PHENYL) ETHANONE

(51) International classification :G01R0033460000, B01J0019000000, G06F0016953500, G21K0004000000, C07D0295130000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the synthesis of Phenylpiperazine derivatives for the treatment of conditions of psychosis. The characterizations of synthesized compounds were done by using IR, H1NMR, and NMR spectroscopies. The synthesized compound is potent neuroleptic agents that can be used in the treatment of psychotic conditions such as schizophrenia and also used in the treatment of cerbral disorders such as aggressiveness. The synthesized compound had shown enhanced effectiveness in the treatment of psychotic conditions, or psychosis in humans.

No. of Pages : 9 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211006161 A

(19) INDIA

(22) Date of filing of Application :04/02/2022 (43) Publication Date : 11/02/2022

(54) Title of the invention : A WIDE BAND RECTANGULAR MICRO-STRIP ARRAY ANTENNA

(51) International classification	:H01Q0021060000, H01Q0001380000, H01Q0021000000, H01Q0001500000, H01Q0013020000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to rectangular microstrip array antenna (100). The present invention is a modified 1×2 rectangular microstrip array antenna (100). The wideband rectangular microstrip array antenna (100) comprises an array antenna unit and a power feed unit. The array antenna unit (100) is fed by the corporate feed network which is simple and cost-effective. The resonance frequency of the antenna is 9.2 GHz and is designed using FR4 Epoxy substrate with Dielectric constant 4.4 and height =1.66. The bandwidth of the array antenna unit (100) is improved by incorporating slots in the radiating patches. The analysis of modified 1×2 rectangular microstrip array antenna (100) is presented in terms of return loss, VSWR, and radiation pattern. The design of a modified 1×2 rectangular microstrip array antenna (100) is suitable for X-band applications such as satellite communication, radar, and modern communication system.

No. of Pages : 16 No. of Claims : 9

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/02/2022

(21) Application No.202211006216 A

(43) Publication Date : 18/02/2022

(54) Title of the invention : "Novel topical formulation of glycopyrolate for preventing hyperhidrosis"

(51) International classification :A61K0031400000, A61K0009000000, A61Q0015000000, A61K0008920000, A61K0008490000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The objective of the present invention is to propose a topical formulation comprising Glycopyrrolate for preventing hyperhydrosis. Another objective of the present invention is to propose a topical formulation comprising Glycopyrrolate for treating hyperhidrosis in hands (palmer hyperhidrosis), armpits (axillary hyperhidrosis) and feet (palmer hyperhidrosis). The present invention ensures efficient delivery through the skin, improved skin hydration and prevent loss of drug caused by sweating.

No. of Pages : 16 No. of Claims : 10

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Government of India

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GEOGRAPHICAL INDICATIONS

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Application Details	
APPLICATION NUMBER	202241007202
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/02/2022
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TITLE OF INVENTION	IoT, Cyber security based Innovative Calamity Observing System using Thing Speak Web
FIELD OF INVENTION	COMMUNICATION
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REQUEST FOR EXAMINATION DATE	--

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/02/2022

(21) Application No.202211007205 A

(43) Publication Date : 18/02/2022

(54) Title of the invention : IOT, CLOUD COMPUTING BASED AUTOMATIC BED TRACKING SYSTEM IN HOSPITALS USING ML ALGORITHMS

(51) International classification	:A61B0005000000, G06N0020000000, G16H0050200000, A61B0005021000, A61B0005024000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
It is critical to monitor and treat a person's health with caution. A person must have access to sufficient medication. As long as you maintain a healthy lifestyle, you may be able to lower your risk of contracting a variety of diseases. The popularity of wearable devices and health-monitoring gadgets has risen in recent years, as evidenced by the increased number of these devices on the market. Even the most skilled physicians have difficulty assessing the severity of a patient's health problems based on their observed symptoms. Doctors can make significant strides by utilising cutting-edge technology such as machine learning and artificial intelligence, which enables them to determine the underlying cause of a disease and forecast its severity using these algorithms (AI). This study employs machine learning algorithms to monitor human health. When developing machine learning algorithms, they are trained and tested on the UCI dataset. The Internet of Things is used to monitor the subject's heart rate, blood pressure, and temperature. The testing phase analyses sensor data from the Internet of Things to determine if there are any health concerns regarding the individual. The data from IoT devices is statistically analysed to determine the predictive accuracy. The results indicate that the K-Nearest Neighbor classifier is more accurate than other traditional classifiers.

No. of Pages : 13 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/02/2022

(21) Application No.202231007537 A
(43) Publication Date : 11/03/2022

(54) Title of the invention : HELMET AND LICENSE PLATE DETECTION USING MACHINE LEARNING AND AI- BASED

(51) International classification :G06K0009000000, G06K0009620000, G06N0003040000, G06N0003080000, A42B0003040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
Our Invention "Helmet and License Plate Detection Using Machine Learning" In today's world, the increasing use of Motorcycles has prompted increment in road accidents and injuries. Helmet are not used by the motorcycle rider and is one of the major causes leading to death rate and injury. Currently, one procedure is to physically check use of helmet at the pavement junction or through the CCTV footage video, which requires human intervention to detect motorcyclists without helmet. The invented framework presents a computerization machine structure to distinguish the motorcycle rider with or without helmet from images. The system extracts objects class based on feature extracted. The system uses You Only Look Once (YOLO) framework which consists of Convolutional Neural Networks trained on Common Objects in Context (COCO) and combined with computer vision. YOLO's convolutional layers are modified to detect specified three classes and it uses a sliding-window process. The map (Mean Average Precision) on validation dataset achieved 81% by using training data.

No. of Pages : 13 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/02/2022

(21) Application No.202211008516 A
(43) Publication Date : 11/03/2022

(54) Title of the invention : NANOBASED PORTABLE DEVICE FOR WATER PURIFICATION

(51) International classification	:C02F0001320000, B82Y0030000000, C01B0032192000, B01D0039200000, B01D0071020000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present disclosure discloses a system for purification of water, characterized in that the system comprises a water passage, a filtration pad comprising graphene oxide nanoparticles and silver nanowires, wherein the filtration pad is fixed inside the water passage, at least one cotton pad fixed on each side of the filtration pad inside the water passage, electrodes connected to the cotton pads, at least one magnet fixed before the position of filtration pad surrounding the water passage.

No. of Pages : 15 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2022

(21) Application No.202211008832 A

(43) Publication Date : 25/02/2022

(54) Title of the invention : STUDY ON ADVERTISEMENTS AND SALES PROMOTIONAL ACTIVITIES

(51) International classification :G06Q0030020000, G06Q0010060000, G09F0023000000, G09F0023100000, G09F0027000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
While advertising is simply one component of the marketing mix design, it is frequently a critical component. It has grown to be a significant social and cultural issue in India as a result extensive media attention and widespread discussion. An example of promotion is the coordination of all seller-led activities to establish channels of knowledge and persuasion in order t increase the size of a commodity or service. Promotion is frequently used as an adjunct to a marketing plan. Promotional decisions must be integrated and coordinated with other marketi decisions, such as product and brand selection, as a component of the marketing mix in order to make the optimal business judgments. As any of the companies in the image below indic advertising is merely one approach of convincing people to buy your goods. A well-balanced promotion strategy is critical as part of a comprehensive marketing strategy. Rather than fo exclusively on advertising, this mix should incorporate salespeople, advertising, and sales promotion. This research, which is a component of the Processes emphasis, examines how communication works in general and the promotional components, such as advertising, that are also included in this process. Locals are also treated horribly prior to and after the transac We'll examine marketing ideas in this segment of our programme, including how to deal with negative news. In a separate post, we address strategies for encouraging people to read you as well as the ramifications of regional limits.

No. of Pages : 9 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/01/2022

(21) Application No.202211002933 A
(43) Publication Date : 28/01/2022

(54) Title of the invention : MULTICLASS ELM BASED SMART TRUSTWORTHY IDS FOR MANETS

(51) International classification :H04L0029060000, G06K0009620000, G06F0021570000, G06F0021500000, G06N0003080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the dynamic nature of MANET makes it susceptible to several security breaches. The proposed work is organized into several phases such as feature selection, trust degree computation, classification and decision making. Intelligent agents are employed to handle all the aforementioned phases. Features of KDD cup'99 is reduced from 41 to 17, so as to minimize the training time and to improve the accuracy of the system. The trust degree is computed by the combination of packet delivery ratio, behaviour and available energy of a node. Extreme Learning Machine (ELM) is employed as the classifier, so as to categorize nodes into trustworthy, partially trustworthy and malicious. Finally, the process of decision making takes place and a decision is made, whether or not to punish the node. The performance of the proposed work is tested and the significance of trust level, feature reduction and the efficiency of classifier are substantiated, through the experimental results.

No. of Pages : 26 No. of Claims : 2

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/01/2022

(21) Application No.202211003164 A
(43) Publication Date : 04/02/2022

(54) Title of the invention : A SENSOR-BASED BIG DATA ANALYTICS FOR PATIENT MONITORING IN HEALTHCARE APPLICATIONS

(51) International classification	:G06Q0050220000, G16H0050300000, G16H0050200000, G16H0050500000, G16H0010600000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The system includes a data store that receives and stores data associated with a plurality of patients selected from medical and health data; and several social, behavioural, lifestyle, and economic data; at least one predictive model for identifying at least one high-risk patient associated with at least one medical condition; and a risk logic module that applies the at least one predictive model to the patient data to determine a risk level for each patient.

No. of Pages : 19 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/01/2022

(21) Application No.202211003638 A
(43) Publication Date : 04/02/2022

(54) Title of the invention : METOPROLOL SUCCINATE AND CARVEDILOL EFFECTS ON ISOPRENALINE INDUCED TACHYCARDIA BY USING BUCCAL DRUG DELIVERY SYSTEM

(51) International classification :A61K0031138000, A61K0031403000, C07D0209880000, G06K0009000000, A61K0009000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the effect of metoproponal succinate and carvedilol on Isoprenaline induced Tachycardia by using buccal delivery system. Metoprolol succinate and Carvedilol both drugs are used as beta-adrenergic blocking agent, and used in case of cardiovascular disorders. In this we produce the tachycardia by isoprenaline, and examine the usefulness of the device in suppressing isoprenaline-induced tachycardia. To know the effect of percentage inhibition, internal comparison had also done in between both the drugs, such as iv, oral and buccal administration. The results showed that the buccal patches of carvedilol had showed the inhibitory effect in the range of 30.00 to 45.07. whereas the carvedilol buccal patches had shown the inhibitory effect in the range of 27.00 to 50.52. Therefore, results showed that the buccal patches of carvedilol had shown the maximum percentage of inhibition when compared to various routes of metoprolol succinate.

No. of Pages : 21 No. of Claims : 3

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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GEOGRAPHICAL INDICATIONS

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202241003733
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/01/2022
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TITLE OF INVENTION	Vedic-Mathematics based Effective High- Speed and Low Power Multiplier Architecture using for DSP Application
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/02/2022

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/01/2022

(21) Application No.202211004642 A
(43) Publication Date : 04/02/2022

(54) Title of the invention : A SYSTEM FOR DETECTION OF FACIAL EMOTIONS USING DEEP LEARNING AND METHOD THEREOF

(51) International classification	:G06K0009620000, G06K0009000000, G06K0009460000, G06N0003080000, G09G0005140000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention discloses a system for detection of facial emotions using deep learning and method thereof. The system includes, but not limited to, an artificial intelligence interface for applying a plurality of image filters to each of a plurality of image windows defined at a plurality of locations in a face in an image to produce a set of descriptors representing contents of each of the plurality of image windows. Further, the processing unit is configured for processing outputs of the plurality of image filters for the plurality of image windows using a feature selection stage by a deep learning data modelling.

No. of Pages : 21 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/01/2022

(21) Application No.202211004836 A

(43) Publication Date : 04/02/2022

(54) Title of the invention : FORMULATION, CHARACTERIZATION AND EVALUATION OF ANDROGRAPHIS PANICULATA HERBOSOMES FOR IMPROVED PERMEABILITY

(51) International classification	:A61K0036190000, A61K0031365000, A61K0047690000, A61K0047540000, B82Y0005000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The aim of present invention is to resolve rapid clearance and high plasma protein binding and poor bioavailability problems. The Andrographolide rich extract loaded herbosomes was formulated to enhance permeability and in vivo bioavailability. In ALH (Andrographolide loaded Herbosome) best formulations are AH8 and AH11. For AH8 the ratio of herbosomes extract, lipid, and temperature ratio are 60 mg, 80 mg, 80°C respectively, whereas for AH11, the ratio of herbosomes extract, lipid, temprature ratio are 40 mg, 60 mg and temp are 80° C. Best formulation selected on the basis of particle size and entrapment the particle size and entrapment of AH8 is 287.19 µm and 84.12 % respectively, AH11 is 288.86 µm, 84.32 % respectively.

No. of Pages : 30 No. of Claims : 6

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GEOGRAPHICAL INDICATIONS

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202231005713
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	AI BASED SMS SPAM DETECTION USING MACHINE LEARNING APPROACH
FIELD OF INVENTION	ELECTRONICS
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/03/2022

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211006160 A

(19) INDIA

(22) Date of filing of Application :04/02/2022

(43) Publication Date : 11/02/2022

(54) Title of the invention : PREPARATION AND CHARACTERIZATION OF FLOATING MICROSPHERES PREPARED BY BIODEGRADABLE POLYMER

(51) International classification	:A61K0009000000, A61K0009500000, A61K0009160000, A61K0009280000, A61K0047140000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/01/2022

(21) Application No.202241001171 A
(43) Publication Date : 04/02/2022

(54) Title of the invention : Small Traders' Perception Towards Corporate Retailing

(51) International classification	:G06Q0030020000, G06K0009000000, G06F0016904000, G06Q0010060000, H01J0037260000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
[011] The current study seeks to examine the impact of corporate retailing on consumers and small businesses in Tamil Nadu. This study is limited to three major retail divisions: food and groceries, fashion and accessories and pharmaceuticals. All three retail segments account for approximately 55 percent of retail sales in recent years. The current study is limited to three corporate retailers, Reliance Fresh, McMart and Himalaya Pharmaceuticals. In the current work, the factors that motivate consumers to like corporate retail outlets, their level of satisfaction with the work of corporate retailers and the perceived impact of consumers and small retailers on corporate retail outlets are mainly emphasized.

No. of Pages : 23 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/01/2022

(21) Application No.202211002490 A

(43) Publication Date : 28/01/2022

(54) Title of the invention : ANTI-PSYCHOTIC POTENTIAL OF EXTRACTS OF ANGLICA GLAUCA L. ROOTS

(51) International classification	:A61K0036185000, A61K0008970000, A01H0003000000, C09D0005000000, A23L0033105000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present invention relates to evaluate the antipsychotic potential of Angilica glauca L. roots as it is claimed in traditional Ayurvedic literature to be used to treat the psychosis like conditions. The roots of plant were purchased from its natural habitat and authenticated prior to the experimental work. physicochemical properties of roots were evaluated and reported. The extraction was performed using two solvents- water and ethanol by cold maceration and hot percolation method respectively. The alcoholic extract showed the presence of alkaloids, carbohydrates, glycosides, phenolic compounds, and tannins while aqueous extract showed the presence of phenolic compounds and tannins. TLC was performed and solvent system for HPTLC was developed. Finger print was developed by HPTLC which can be used in the future for identification of this plant. In animal study, all the test groups were found to reduce the symptoms of psychosis induced by Ketamine. The best response was found in the group treated with 600 mg/kg dose.

No. of Pages : 20 No. of Claims : 1

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/01/2022

(21) Application No.202211000623 A
(43) Publication Date : 14/01/2022

(54) Title of the invention : NEW ACETOPHENONE DERIVATIVES FOR ANTICONVULSANT ACTION

(51) International classification :B01J0020220000, C08F0297080000, C12M0001000000, C02F0001280000, A61K0031451000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Name of Applicant : NA
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(57) Abstract :
The present invention relates to the antiepileptic acetophenone derivatives, compute physicochemical parameters, and perform a docking analysis. Condensing {2-(4-acetylphenoxy)-N-(benzo[d]thiazol-2-yl)acetamide} with substituted anilines in ethanol and refluxing the reaction mixture for 14 to 16 hours in glacial acetic acid yielded acetophenone derivatives. The structures of newly synthesized substances were characterized using Infrared spectroscopy and uclear Magnetic Resonance spectroscopy. The research showed that of the four target compounds, Y-2; N-(benzo[d]thiazol-2-yl)-2-(4-(1-((3-methoxyphenyl)imino)ethyl)phenoxy) acetamide seemed to have the most powerful antiepileptic inuence. According to the research results, Y-2 could be a new promising lead moiety for the development of antiepileptic medications.

No. of Pages : 18 No. of Claims : 2

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FORM 2

THE PATENTS ACT 1970

39 OF 1970

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THE PATENT RULES 2003

COMPLETE SPECIFICATION

(SEE SECTIONS 10 & RULE 13)

1. TITLE OF THE INVENTION

Production and Operation management System using IoT

2. APPLICANTS (S)

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Sanjeev Bansal
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2. PREAMBLE TO THE DESCRIPTION

COMPLETE SPECIFICATION

The following specification particularly describes the invention and the manner in which it is to be performed

Sanjeev Agrawal
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IFTM UNIVERSITY
MORADABAD

Production and Operation management System using IoT

Abstract:

Numerous businesses are battling to maintain control of their manufacturing systems in an uncertain market. The adoption of "smart" technologies such as the internet of things and cloud computing into production management has taken significantly longer than anticipated. Examining these issues through the lens of four case companies demonstrates their importance. Then we develop a sophisticated PPC system. Additionally, we discuss the advantages of reusing old items. The model presented here takes a small step-by-step approach to improving PPC processes for Industry 4.0 and sustainability. Product manufacturers benefit more from intelligent product strategies, whereas stock manufacturers benefit more from intelligent process and pay-per-click (PPC) strategies.

Sanjeev Bansal
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Descriptions:

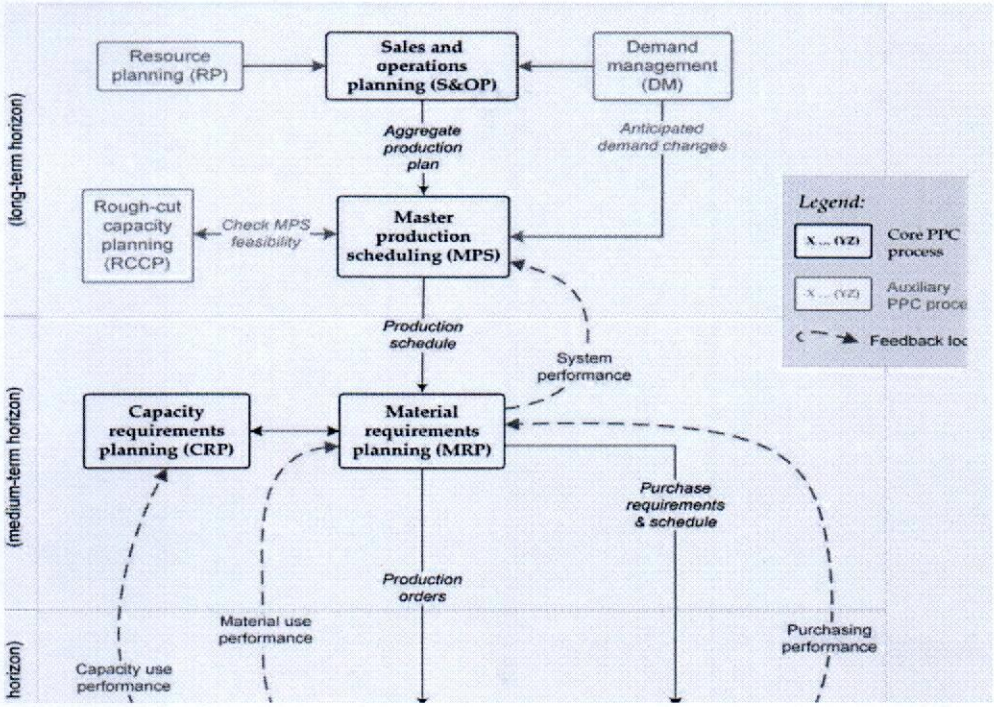
Current research on Industry 4.0 and its technologies, as well as the extent to which it can be used, has a significant empirical content problem. This paper investigated the processes and operations of four case companies from various industries to help bridge the gap between MTO and MTS factories. We also observed how they operated their MTO and MTS machines. How would you define smart PPC? What are its drawbacks, and what are its advantages? These are must be addressed in order to find a low-risk way to begin implementing these technologies. This incremental, conceptual model for developing smart PPC systems in manufacturing businesses has been demonstrated to be effective using use-case and case studies that demonstrate how it works. This study's findings help us understand more in three important ways. Because of the Internet of Things and a smart PPC approach that uses data analytics, business intelligence, and other methods are more likely to be able to make smart decisions. This is what we discovered during our research: Implementations of Industry 4.0 should be compatible. To figure out how to use industry 4.0 tools in a way that works for them, each company should use its own smart production planning and control. The approach should be guided by the variables in the planning environment (such as supply and demand processes) (PPC). The industry in which a company operates can also influence how much they require and use a smart PPC tool. People in these industries will be unable to use smart technology because it is incompatible with their work. Concerning the third and final point, we stated that a smart PPC system that can be implemented quickly can compensate for the lack of specific sustainability KPIs that guide PPC processes. Finally, there is a minor snag with this point. A mature smart PPC solution may also reduce the need for human planners, with a single planner overseeing an operation that was previously overseen by a team of several planners. When a small number of people participate in a study, it is impossible to make broad statements about how well the study's findings can be applied to other people. Although all four of our case companies are located in Norway, their sizes, reach, market positions, and industry structures allow us to compare and contrast their findings. We can learn from one another this way. Our findings may have been influenced by the fact that these companies are based in Norway, rather than

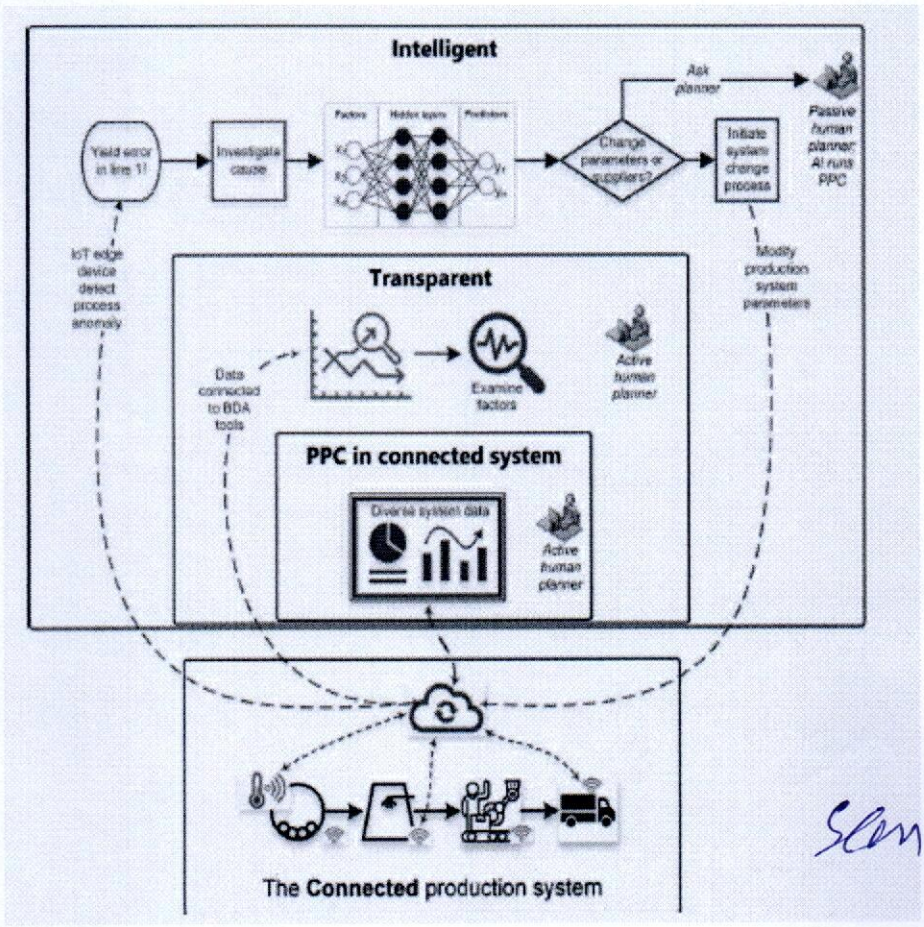
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in countries with more diverse and extensive industrial economies, such as Germany or even Sweden. Smart operations are already being used in important industries for the country, such as Norway's oil and gas service industry and Germany's automobile manufacturing industry. We anticipate that this trend will continue. For example, our findings may understate the extent to which people are conversing about the subject in general. We can't predict how these technologies will change in the future because we've only been looking at these companies for a short time (or the vision of Industry 4.0). We did not look at how industry 4.0 might be linked to popular improvement ideas like lean in this study, despite the fact that these ideas are frequently discussed. This demonstrates their dedication to lean. While the supply chain and industry structure were examined to a lesser extent in this investigation, the company's point of view dominated the investigation. It may be interesting to see how the supply chain works in this study because it provides us with a better understanding of what we're studying. Following Eisenhardt's rules, we believe the study's methodology is good enough to meet the study's stated goals during research in a new field. Future research could build on this study to determine whether and how far the study's findings can be generalised. Following the first survey, large-scale national or international surveys can investigate the issues raised. Products that are complex MTO manufacturers, on the other hand, were discovered to prefer a smart process strategy over those who produced simple products. To be successful, production planners and system developers will need to be able to do smart PPC, and research into the skills and methods for putting this knowledge into practise is critical for the business world.

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DRAWINGS:





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CLAIMS

1. Production and Operation management System using loT describe Numerous businesses to maintain control of their manufacturing systems.

2. Production and Operation management System using loT of claim 1, wherein said that system developers will need to be able to do smart PPC.

3. Production and Operation management System using loT of claim 1, wherein said the proposed system is more accurate and faster.

4. Production and Operation management System using loT of claim 1, wherein said that in this paper, we analyzed and discussed various aspects.

5. Production and Operation management System using loT of claim 1, wherein said that in recent years, IoT become a hot topic in medical system.

6. Production and Operation management System using loT of claim 1, wherein said that a reliable and efficient system for monitoring variables.

7. Production and Operation management System using loT of claim 1, wherein said that this research looks at all of the important and recent work that has been done so far, as well as its limitations and challenges.

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FORM 2

THE PATENTS ACT 1970

39 OF 1970

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THE PATENT RULES 2003

COMPLETE SPECIFICATION

(SEE SECTIONS 10 & RULE 13)

1. TITLE OF THE INVENTION

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2. APPLICANTS (S)

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Dr. Megha Bhatia	Indian	Megha Bhatia C/o Mr. Abhishek Bhatia H.no.12 Milan Vihar, opposite vidhan kesari press Delhi Road, Moradabad-244001, U.P.

Sanjeev Sharma
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2. PREAMBLE TO THE DESCRIPTION

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Abstract:

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Descriptions:

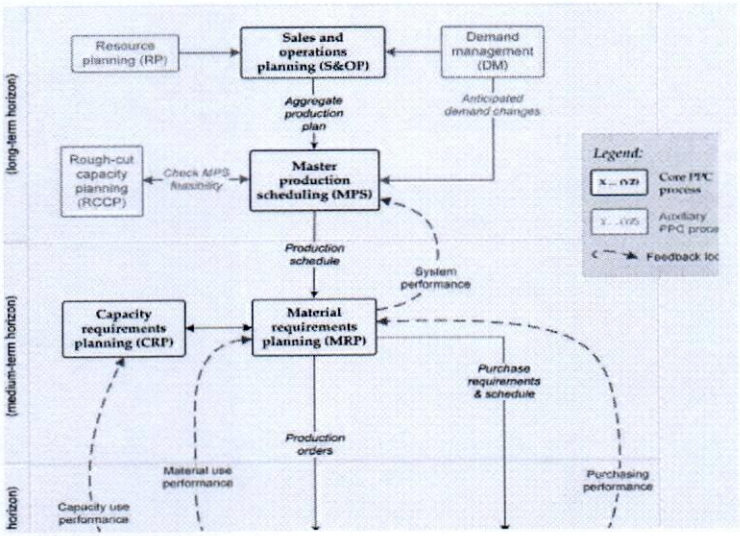
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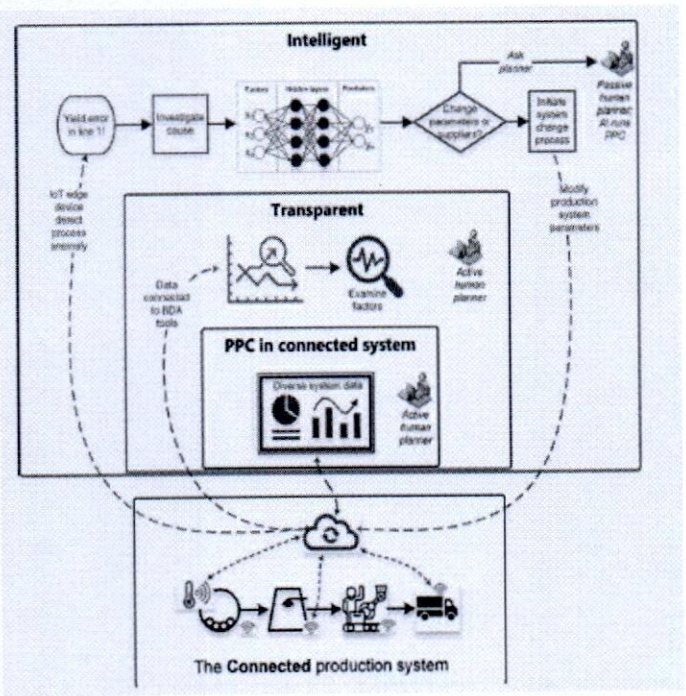
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in countries with more diverse and extensive industrial economies, such as Germany or even Sweden. Smart operations are already being used in important industries for the country, such as Norway's oil and gas service industry and Germany's automobile manufacturing industry. We anticipate that this trend will continue. For example, our findings may understate the extent to which people are conversing about the subject in general. We can't predict how these technologies will change in the future because we've only been looking at these companies for a short time (or the vision of Industry 4.0). We did not look at how industry 4.0 might be linked to popular improvement ideas like lean in this study, despite the fact that these ideas are frequently discussed. This demonstrates their dedication to lean. While the supply chain and industry structure were examined to a lesser extent in this investigation, the company's point of view dominated the investigation. It may be interesting to see how the supply chain works in this study because it provides us with a better understanding of what we're studying. Following Eisenhardt's rules, we believe the study's methodology is good enough to meet the study's stated goals during research in a new field. Future research could build on this study to determine whether and how far the study's findings can be generalised. Following the first survey, large-scale national or international surveys can investigate the issues raised. Products that are complex MTO manufacturers, on the other hand, were discovered to prefer a smart process strategy over those who produced simple products. To be successful, production planners and system developers will need to be able to do smart PPC, and research into the skills and methods for putting this knowledge into practise is critical for the business world.

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DRAWINGS:





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CLAIMS

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3. Production and Operation management System using IoT of claim 1, wherein said the proposed system is more accurate and faster.

4. Production and Operation management System using IoT of claim 1, wherein said that in this paper, we analyzed and discussed various aspects.

5. Production and Operation management System using IoT of claim 1, wherein said that in recent years, IoT become a hot topic in medical system.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/01/2022

(21) Application No.202211001145 A
(43) Publication Date : 14/01/2022

(54) Title of the invention : ETHANOLIC LIPID VESICLES BASED TOPICAL GEL FORMULATION FOR THE EFFECTIVE TREATMENT OF ATOPIC DERMATITIS

(51) International classification :A61K0009000000, A61K0009127000, A61K0031573000, A61K0008140000, A61K0009060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the development of SLNs by using Clobetasol propionate (CP) as model drug for topical delivery. A suitable dermatological gel was prepared by incorporating clobetasol propionate loaded ethanolic lipid vesicles for prolonged drug release, improved therapeutic efficacy, better dispersity, and to reduce systemic absorption and side effects of the drug. Ethanolic lipid vesicles were prepared by cold method and evaluated for the particle size, Poly-dispersity index, and entrapment efficiency. Optimized vesicles with vesicle size 199.6 and % entrapment efficiency of 88.87±1.01 was formulated as Carbopol gel and compared with controlled gel, and hydroethanolic gel of Clobetasol propionate. Percent drug diffusion from ethanolic lipid vesicular gel was much higher than hydroethanolic gel and controlled gel formulation. Skin irritation study showed no sign of skin irritation. Thus, the results collectively suggest that ethanolic lipid vesicles proved to be an effective nonirritant carrier for improved penetration of clobetasol propionate for potential topical therapeutics.

No. of Pages : 19 No. of Claims : 2

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/09/2021

(21) Application No.202111042340 A

(43) Publication Date : 01/10/2021

(54) Title of the invention : METHOD AND SYSTEM TO CLASSIFY THE IMAGES AS A GENUINE IMAGE AND A FRAUD IMAGE

(51) International classification :G06K 9/62
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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6)AVADHESH KUMAR DIXIT
7)DR UMA MEENA
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(57) Abstract :
The present disclosure classifies the images as a genuine image and a fraud image. The received images are denoised followed by extraction of features. Set of SURF features are extracted to analyse similarity, whereas similarity is analysed based on Manhattan distance protocol. Further, a classification model is generated by using the pre-stored images, based on an integrated Decision Tree and Hybrid Neural Network approach. The classification model is utilized to classify the images as genuine and fraud.

No. of Pages : 25 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/11/2021

(21) Application No.202111055055 A
(43) Publication Date : 03/12/2021

(54) Title of the invention : AN IOT BASED SOLAR TRACKING SYSTEM USING DEEP LEARNING ANALYSIS AND METHOD THEREOF

(51) International classification :H02J0007350000, G06N0003040000, H04L0029080000, G06N0003080000, H02S0020320000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
This invention provides an IoT based solar tracking system using deep learning analysis and method thereof. The system includes, but not limited to, a plurality of solar panel arrays connected through an IoT network having a distinct maximum power point; a charging controller unit for regular tracking of the plurality of solar panel arrays in search of multiple power peak detection point using a deep learning interface; a processing unit provided with a convolutional neural networking module for receiving input from the charging controller unit and provide same to a battery of the solar panel connected cell; and a memory device communicatively coupled with the processing unit for storing a plurality of data values.

No. of Pages : 23 No. of Claims : 10

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Department of Industrial Policy & Promotion,
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INTELLECTUAL PROPERTY INDIA

Application Details

APPLICATION NUMBER	202141046324
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/10/2021
APPLICANT NAME	1 . Ingeniouz 2 . Dr T Lalitha,Jain (Deemed-to-be University) 3 . Dr. Sushma Jaiswal,Guru Ghasidas Vishwavidyalaya 4 . Dr. Ganesh D R,CMR Institute of Technology 5 . Dr.Sapram Srilalitha, ACE Engineering College 6 . Dr Kavitha H,Siddaganga Institute of Technology 7 . Dr. Gurpreet Singh,Punjab Institute of Technology,Rajpura 8 . Dr. Amanpreet Kaur,University Institute of Engineering 9 . Dr. Amit Kumar Manocha,Punjab Institute of Technology,Moga 10 . Dr. Aashdeep Singh,Punjab Institute of Technology,Rajpura 11 . Dr. Nabeel Ahmad,IFTM University 12 . Dr Arvind Kumar Shukla,IFTM University 13 . Makhan kumbhkar,Christian Eminent College
TITLE OF INVENTION	AI AND WIRELESS BASED SMART DRUG PRESCRIPTION MANAGEMENT FOR AUTONOMOUS DRUG DELIVERY SYSTEM
FIELD OF INVENTION	COMPUTER SCIENCE
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ADDITIONAL EMAIL (As Per Record)	
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Application Status

APPLICATION STATUS	**Awaiting Request for Examination**

Sanjeev Agrawal
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/10/2021

(21) Application No.202141046123 A

(43) Publication Date : 22/10/2021

(54) Title of the invention : Analysis of Retail Purchase Trend to understand customer behaviors and purchase decisions using programming language R

(51) International classification :G06Q 30/02
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
This study, which employs the R programming language, investigates the relationships between various factors that influence online shopper purchasing behavior. Because of the growing popularity of online shopping, an increasing number of people are making purchases while sitting at their desk or in their living room. This study aims to investigate the relationship between consumer buying behavior (the dependent variable) and the influence of five major literature-derived variables in order to determine how consumer buying behavior (the dependent variable) relates to the influence of five major literature-derived variables (the dependent variable). Researchers will examine how consumers online shopping habits are reflected in their purchases to determine how consumer buying habits reflect online shopping trends. Through statistical analysis of data, trust and convenience were identified as the most important factors in peoples decisions to shop online or in brick and mortar stores.

No. of Pages : 12 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/12/2021

(21) Application No.202111060045 A
(43) Publication Date : 31/12/2021

(54) Title of the invention : DEVELOPMENT OF SIMVASTATIN NIOSOME TO INCREASE BIOAVAILABILTY

(51) International classification	:A61K0031366000, A61K0009000000, C07D0309300000, A61K0009127000, A61K0009200000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to preparation of simvastatin niosomes to enhance its solubility and bioavailability. Simvastatin is derived synthetically from fermentation products of Aspergillus terreus. It is used to treat hyperlipidaemia. Simvastatin when hydrolysed produces beta, delta, dihydroxy acid which is similar to HMG – CoA (Hydroxylmethyl glutaryl CoA) in structure. So hydrolysed simvastatin competes with HMG – CoA for HMG – CoA reductase. simvastatin niosomes were prepared by using hand shaking method. From the result of the experiment, it may be concluded that formulation F2 containing 2:1 (Span 60: Cholesterol) was found to be high % of entrapment efficiency and desired sustained release of simvastatin. The in-vivo study value it was found that the bioavailability of simvastatin niosome was greater than the plain simvastatin drug due to the decrease in particle size.

No. of Pages : 19 No. of Claims : 2

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2021

(21) Application No.202111052162 A
(43) Publication Date : 26/11/2021

(54) Title of the invention : DEVELOPMENT OF GLIMEPIRIDE MICROSPHERES BY COMPLEX COACERVATION METHOD

(51) International classification :A61K0031640000, B01J0013100000, C08F0010000000, A61K0009510000, C30B0029120000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the development of glimepiride microspheres by complex coacervation method. spherical shape with smooth surface and very high percent drug entrapment efficiency coupled with high production yield. It was also found that polyelectrolyte complex formation between the positively charged Chitosan and negatively charged Gelatin B can control the release of model drug i.e., Glimepiride for about 12 hours in almost all the formulations, as this system can be useful in designing control release formulation through simple modifications in formulation parameters. The most important parameter that were found to affect were polyelectrolyte concentration, pH of the formulation medium, stirring rate, crystallinity of the drug.

No. of Pages : 23 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/11/2021

(21) Application No.202111052885 A

(43) Publication Date : 26/11/2021

(54) Title of the invention : ANTI-IMPLANTATION AND ABORTIFACIENT ACTION OF ROOT BARK OF AILANTHUS EXCELSA

(51) International classification	:A61K0036185000, A01N0065000000, A01N0065080000, A61K0008920000, A61K0008978900
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to evaluate the anti-fertility activity of root bark of Ailanthus excelsa. Anti-fertility activity of methanolic extract of root bark of Ailanthus excelsa were evaluated at three doses i.e. 100mg/Kg, 150mg/Kg and 200mg/Kg of the body weight and observed that treatment with methanolic extract of Ailanthus excelsa at the dose of 200 mg/kg was shown significant anti-fertility effect. Ailanthus excelsa posses anti-fertility activity by inhibiting implantation and abortifacient action.

No. of Pages : 9 No. of Claims : 1

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/10/2021

(21) Application No.202111046117 A
(43) Publication Date : 29/10/2021

(54) Title of the invention : ANTI-FERTILITY EFFECT OF STEM BARK OF AILANTHUS EXCELSA

(51) International classification :A61K0036185000, A01N0065000000, A61K0008920000, A01N0065080000, A61K0036370000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the anti-fertility effect of stem bark of ailanthus excelsa. The stem bark of Ailanthus excelsa were evaluated by anti-implantation and abortifacient method at three doses i.e. 100mg/Kg, 150mg/Kg and 200mg/Kg of the body weight .It was observed that treatment with methanolic extract of Ailanthus excelsa at the dose of 200 mg/kg was shown significant anti-fertility effect. Ailanthus excelsa possess anti-fertility activity by inhibiting implantation and abortifacient action

No. of Pages : 10 No. of Claims : 1

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/12/2021

(21) Application No.202111056324 A
(43) Publication Date : 10/12/2021

(54) Title of the invention : ANTIDIABETIC ACTIVITY OF THE LEAVES AND STEM OF BAUHINIA VAHLII

(51) International classification :A61K0036480000, A61K0036185000, A61K0031155000, A61K0009000000, A61K0031700000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the anti-diabetic activity of ethanolic extracts of the leaves and stem of Bauhinia vahlii (EEBVL and EEBVS). Antidiabetic activity of ethanolic extracts of the leaves and stem of B. vahlii (EEBVL and EEBVS) were evaluated at the doses 200 mg/kg and 400 mg/kg by using two models, i.e. Alloxan induced diabetes and Streptozotocin induced diabetes in rats. Antidiabetic activity effect is rapid, long lasting and statistically significant at both 200 and 400mg/kg doses but remarkable antidiarrhoeal activity at 400mg/kg was observed by ethanoic extracts of the leaves.

No. of Pages : 16 No. of Claims : 2

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Application Details

APPLICATION NUMBER	202141033357
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/07/2021
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TITLE OF INVENTION	MACHINE LEARNING AND FUZZY LOGIC BASED SMART DETECTION OF CHRONIC LUNG CANCER
FIELD OF INVENTION	COMPUTER SCIENCE
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PUBLICATION DATE (U/S 11A)	06/08/2021

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Application Status

APPLICATION STATUS	**Awaiting Request for Examination**

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GEOGRAPHICAL INDICATIONS
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Application Details	
APPLICATION NUMBER	202141050744
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	IOT AND CLOUD BASED ENERGY HARVESTING TECHNIQUE FOR RAIL BY USING ZIGBEE COMMUNICATION
FIELD OF INVENTION	COMMUNICATION
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REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	19/11/2021

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INTELLECTUAL PROPERTY INDIA

Application Details	
APPLICATION NUMBER	202141034881
APPLICATION TYPE	ORDINARY APPLICATION
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FIELD OF INVENTION	ELECTRONICS
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PUBLICATION DATE (U/S 11A)	13/08/2021

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Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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INTELLECTUAL PROPERTY INDIA
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Application Details

APPLICATION NUMBER	202141037949
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/08/2021
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TITLE OF INVENTION	Image Processing based paddy leaf disease detection using Adaboost classifier.
FIELD OF INVENTION	COMPUTER SCIENCE
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REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	24/09/2021

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Application Status

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INTELLECTUAL PROPERTY INDIA

Application Details

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TITLE OF INVENTION	IOT AND CLOUD BASED ENERGY HARVESTING TECHNIQUE FOR RAIL BY USING ZIGBEE COMMUNICATION
FIELD OF INVENTION	COMMUNICATION
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Application Status

APPLICATION STATUS	**Awaiting Request for Examination**

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/12/2021

(21) Application No.202111057510 A

(43) Publication Date : 17/12/2021

(54) Title of the invention : UAV OBSTACLE AVOIDANCE USING VISION BASED DEEP REINFORCEMENT LEARNING ALGORITHM

(51) International classification :G05D0001020000, G06T0007110000, G06T0007136000, G06K0009320000, G06T0007700000

(86) International Application No :NA
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(61) Patent of Addition to Application Number :NA
Filing Date :NA

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Filing Date :NA

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9)Mrs.PVN Rajeswari

10)Dr. Shivashekharayya V. Viraktamath

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(57) Abstract :
The invention pertains to machine vision and intelligent control and describes a monocular vision technique to identify and locate the edge of a road. There are two approaches for detecting the edge of a road that may be used in visual navigation or intelligent control of a robot. These methods target a continuous road with various edge characteristics. The road's margin may be detected using either a color-based approach or a threshold value dividing method according to the invention. It is possible to calculate the perpendicular distance and robot course angle from the robot's current position to the edge of the road using an image that has been inverted perspective projected. This results in an image that appears to be a top view but is a front view, which is then reversed. With its great anti-interference performance, instantaneity, and suitability for both semi-structured and unstructured roadways, this system is simple to apply.

No. of Pages : 21 No. of Claims : 5

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/10/2021
(21) Application No.202121045307 A
(43) Publication Date : 29/10/2021

(54) Title of the invention : THE IMPACT OF INDIAN TOURISM DEVELOPMENT ON THE COUNTRY'S ECONOMIC GROWTH

(51) International classification	:G06Q0050140000, G06Q0010040000, G06Q0030020000, G06Q0010060000, A61K0036280000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Since ancient times, travel and tourism have played an important role in Indian culture and tradition. The Indian tourism sector is a multimillion-dollar business and India's most dynamic tertiary activity. India's tourist industry's potential and performance must be evaluated in light of the country's socio-economic circumstances. A focus on innovation and providing value for visitors is discussed in this article as a way for India to become a prominent tourist destination across the globe. A major objective of this campaign was to alter Indians' attitudes and behaviors toward foreign visitors by emphasizing the importance of guests in Indian culture going back thousands of years. Additionally, it looks at how India's economic development affects tourism, factors that contribute to economic growth, and the contribution of the tourist sector to India's gross domestic product (GDP).

No. of Pages : 22 No. of Claims : 5

The Patent Office Journal No. 44/2021 Dated 29/10/2021

50096

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/11/2021

(21) Application No.202111055193 A
(43) Publication Date : 03/12/2021

(54) Title of the invention : WOUND HEALING POTENTIAL OF TRIDAX PROCUMBENS LINN

(51) International classification :A61K0009060000, A61K0036280000, A61K0036185000, A61K0036190000, A61K0036480000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to the ethanoic extract of Tridax procumbens (L.) and evaluation of its wound healing activity in excision and incision wound model. The 2.5% w/w, and 5% w/w simple ointment were prepared with the extract of Tridax procumbens as active ingredients. The 5% w/w simple ointment showed the most potent wound healing potential in diabetic and non-diabetic group. The wound healing potential by 5% w/w ointment of T. procumbens was more remarkable and noticeable in non-diabetic group than diabetic group. This may be due to the presence of active constituent like Flavonoids and tannin in the extract of Tridax procumbens.

No. of Pages : 25 No. of Claims : 2

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/09/2021

(21) Application No.202111044052 A

(43) Publication Date : 15/10/2021

(54) Title of the invention :PROCESS FOR PRODUCING REFINED NUTRACEUTICAL COMPOSITION FROM CORCHORUS DEPRESSUS (L.)"

(51) International classification	:A61K 31/444
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

The present invention belongs to the field of pharmaceutical science. More, particularly the invention pertains to process for producing refined nutraceutic composition from Corchorus depressus (L.) against Antioxidant & hepatoprotective activities. Further, this invention relates to determination of extractive values, foreign matters and ash values of Corchorus depressus (L.) extract.

No. of Pages : 24 No. of Claims : 2

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inPASS Indian Patent Advanced Search System (http://ipindia.nic.in/index.htm)

INTELLECTUAL PROPERTY INDIA (http://ipindia.nic.in/inc

Patent Search

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Publication Date	27/08/2021
Publication Type	INA
Application Number	201911025789
Application Filing Date	28/06/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIOTECHNOLOGY
Classification (IPC)	A61K0036230000, G06F0016242000, A61K0009000000, G21C0015260000, B44C0005060000

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Abstract:

A natural health product comprising extract of 40 – 60 % by weight stevia leaves, 20 – 30 % by weight liquorice stem, 2.5 – 7.5 % by weight tulsi leaves, 2.5 – 7.5 % by weight extract of 5 – 10 % by weight of at least 1 unripe fruit, extract of 5 – 10 % by weight at least 1 ripe fruit, extract of 1 – 5 % by weight at least 1 vegetable. The process to mak natural health product comprising preparing first extract of stevia leaves, liquorice stem, tulsi leaves and aloe, preparing a second extract of unripe fruit, third extract of rip and a fourth extract of vegetable, mixing the said extracts with each other in the ratio of 7 – 9 : 1 – 5 : 2 – 5 : 0.1 – 1.5, respectively, subjecting said mixture to the step of concentration under reduced pressure using rotary evaporator so as to reduce it to 1 – 10 parts in order to obtain natural health product followed by drying.

Complete Specification

FIELD OF INVENTION

This invention relates to a natural health product. In particular this invention relates to a product made of natural products for use as natural health product which is use to maintain normal health condition, beneficial in disorders such as diabetes and obesity. The natural health product acts as a natural low calorie blend for fortification v biologically active and / or inactive substance(s).

BACKGROUND OF THE INVENTION

Diabetes is a health disorder characterized by defective insulin secretion and / or a decrease in insulin sensitivity. Adipose tissue implicates the induction of low grade chronic inflammation which in turn initiates a cascade of anti- and pro-inflammatory responses by the immune system: ultimately damaging the ß-cells of the pancreas. Pre-diabetic state involves increased glucose levels above the normal range but below that of clinical diabetes. Pre-diabetes is commonly associated with the metabolic syndrome. Both in turn are closely related with obesity. Pre-disposition of obesity to pre-diabetes and metabolic syndrome have a common metabolic soil.

Fortification of stevia leaves along with moringa leaves is known to enhance medicinal value of these natural products. Also, stevia-based products, for example, biscuits and other bakery products are known in the art. The method used for the preparation of preparing biscuits and other bakery products is also known in the art.

US patent application no. US20130330463A1, teaches about a method for producing a highly stable and concentrated stevia sweetener. The method comprises i. providi a stevia sweetener powder, ii. providing water, iii. mixing the water and stevia sweetener powder to make a mixture, iv. increasing the temperature of the mixture by a gradient method to make a solution, v. holding the solution at an elevated temperature and vi. decreasing the temperature of the solution by a gradient method to obtai high stability and high concentration stevia sweetener solution

View Application Status

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2021

(21) Application No.202111052163 A
(43) Publication Date : 26/11/2021

(54) Title of the invention : HEPATOPROTETIVE AND ANTIOXIDANT EFFECT OF PRUNUS ARMENIACA SEED

(51) International classification :A61K0036736000, A61K0009000000, A61K0031575000, A23L0033105000, A61K0009510000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention relates to the antioxidant and hepatoprotective activity of Prunus armeniaca seed. To check the hepatoprotective activity Aluminum sulphate (50 mg/kg, i.p) was administered to the animals. Ursodeoxycholic acid (250 mg/kg, p.o) was given to the standard group. Ethanoic extract of Prunus armeniaca seed (200 and 400 mg/kg p.o) were given to the treatment groups. Results showed that the animals treated with plant extract reduced the level of various biochemical parameter of the liver which are responsible for the liver toxicity such as SGOT, SGPT, ALP, TP, TB, DB, HDL, LDL, TC, ALP, TBL and DBL. The findings of the present study also suggested that ethanoic extracts of Prunus armeniaca seed, the plant could be a potential natural source of antioxidants and could have greater importance as therapeutic agent in preventing or slowing oxidative stress related degenerative diseases.

No. of Pages : 24 No. of Claims : 1

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2021

(21) Application No.202111055633 A
(43) Publication Date : 10/12/2021

(54) Title of the invention : HAIR GROWTH PROMOTION STUDIES OF PETROLEUM ETHER EXTRACT OF ABRUS PRECATORIOUS

(51) International classification	:A61Q0007000000, A61K0008630000, A61K0031580000, A61K0031568000, C07J0073000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to the study of petroleum ether and ethanolic extracts of A. precatorius seeds are evaluated for reversal of androgen (testosterone by i.m route) induced alopecia in male albino wistar rats and compared to topical administration of standard antiandrogenic drug finasteride for 21 days. The results were reflected from visual observation and histological study of several skin sections via various parameters as anagen to telogen ratio and follicle density/mm area of skin surface. To investigate the mechanism of observed activity, in vitro experiments were performed. Inhibition of 5a- reductase activity by extracts and finasteride suggest that they reversed androgen induced alopecia by inhibiting conversion of testosterone to dihydrotestosterone (potent androgen responsible for androgenic alopecia). So it may be concluded that petroleum ether and ethanolic extract of A. precatorius seed posses anti androgenic alopecia activity due to inhibition of 5a-reductase enzyme.

No. of Pages : 12 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/04/2022

(21) Application No.202211024024 A
(43) Publication Date : 29/04/2022

(54) Title of the invention : SYNTHESIS AND ANTICONVULSANT ACTIVITY OF THIADIAZOLES DERIVATIVES

(51) International classification	:C12N0009240000, C07D0487040000, C07D0285135000, B01D0011020000, C07D0209480000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to the synthesis of thiadiazole derivatives and evaluated for different properties to predict its CNS activity. The drugs synthesized was synthesized by using thiosemicarbazide as a starting material which undergoes cyclization and then bromination to form the intermediate (C). The amino group of intermediate was allowed to react with different benzaldehydes to form the final product (D1-D4). The compounds were evaluated for the anticonvulsant activity by using PTZ method. The target compounds also showed mild to moderate activity. From activity, some of the target compounds have shown significant CNS activity. However, further optimization might be beneficial in the future research and development of the target compounds for the enhancement of the CNS activity.

No. of Pages : 15 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/01/2021

(21) Application No.202111002121 A
(43) Publication Date : 29/01/2021

(54) Title of the invention : SUBSTITUTED PHENOXY PHENYLETHYLIDENE DERIVATIVE AS ANTIMICROBIAL AGENT

(51) International classification	:C12R 1/125 A61K 31/18 A61K 31/5377
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Substituted phenoxy phenylethylidene derivatives of Formula I or its pharmaceutically acceptable salt (HG-1 to HG-4) were obtained and screened for antimicrobial activity. The structures of these compounds were established on the basis of M.P, TLC, IR, 1H-NMR spectral analysis. The target compounds were found to be tested against Bacillus Subtilis (Gram positive), E.Coli (Gram negative) bacteria and Candida albicans, when compared with the reference drugs ampicillin and clotrimazole. Among the compounds tested, (HG-4) showed maximum zone of inhibition 20 mm against B.subtilis.

No. of Pages : 29 No. of Claims : 9

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2021

(21) Application No.202111009487 A
(43) Publication Date : 12/03/2021

(54) Title of the invention : FORMULATION OF PHENYLETHANONE DERIVATIVES & ITS BIOLOGICAL ACTIVITY

(51) International classification	:C12R0001125000, A61K0047180000, A61K0038480000, A61K0031404000, A61M0025000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
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9)Dr. Prince Dubey
10)Dr. Deenanath Jhade
11)Akarsh Agrawal

(57) Abstract :
The present invention relates to solving antimicrobial resistance to the available drugs through chemical synthesis and evaluation of new Schiff Bases as antimicrobial agents. The target compounds were found to be tested against Bacillus Subtilis (Gram positive), E.Coli (Gram negative) bacteria and Candida albicans when compared with the reference drugs ampicillin and clotrimazole. A gel based formulation was developed for ease of administration.

No. of Pages : 13 No. of Claims : 6

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GOVERNMENT OF INDIA

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Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Design Application Details

Application Number:	341063-001
Cbr Number:	201826
Cbr Date:	19/03/2021 16:01:07
Applicant Name:	1. Dr. T. Padmapriya, 2. Sridevi. R, 3. Dr. Ch. Suneetha, 4. Dr. Arvind Kumar Shukla, 5. Dr Chandra Kumar Dixit, 6. Dr. Tamma Eswarlal, 7. Capt. Dr. N. Ramakrishna, 8. Julian Benadit. P, 9. V. Krishnakumar, 10. Dr Kapil Kumar Bansal, 11. Dr. Puttasrivani, 12. Dr. Madhu.C.Divakar, 13. Dr. Raavi Kant Pathak, 14. Nithyananthi. S,

Design Application Status

Application Status:	Design Accepted and Published, Journal No is 20/2021 and Journal Date is 14/05/2021

Back

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230.The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : controllerdesign.ipo@nic.in

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Government of India

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Application Details	
APPLICATION NUMBER	202141021100
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/05/2021
APPLICANT NAME	1 . Dr Anandhi Meena B,Anna University 2 . S Parameswari,Kalasalingam Institute of Technology 3 . Dr Prasanna Kumar Singh,Noida Institute of Engineering and Technology 4 . Dr Arvind Kumar Shukla,IFTM University 5 . Santosh Kumar S,Sri Venkateshwara College of Engineering 6 . Dr. Shivashankar,Sri Venkateshwara College of Engineering 7 . Dr.S.Sugumaran,Vishnu Institute of Technology 8 . Dr.M.Kavitha,K Ramakrishnan college of technology 9 . Dr Sandip D Satav,JSPM's Jayawantrao Sawant COE 10 . Dr. Milind Bhalchandra Tadwalkar,Jayawantrao Sawant College of Engineering 11 . Sandeep Kumar Jain,Vivekananda Global University 12 . Bhojraj Agrawal,Vivekananda Global University
TITLE OF INVENTION	DESIGN AND FABRICATION OF MICROSTRIP PATCH ANTENNA FOR WIRELESS 5G APPLICATIONS
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	ingeniouz1@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	10/05/2021
PUBLICATION DATE (U/S 11A)	11/06/2021

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Application Status	
APPLICATION STATUS	Application Awaiting Examination

View Documents

Filed → RQ Filed → Published → Under Examination → Disposed

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Ministry of Commerce & Industry,
Government of India

INTELLECTUAL PROPERTY INDIA

Application Details	
APPLICATION NUMBER	202121026289
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/06/2021
APPLICANT NAME	1 . Mahesh P Haldankar,Shree Rayeshwar Institute of Engineering and Information Technology 2 . Astha Singh Kushwaha,Dr. Rammanohar Lohia Avadh University 3 . Dr T.Lalitha,Jain Deemed-to-be University 4 . Dhivya .R,Dr.SNS Rajalakshmi College of Arts and Science 5 . Dr Arvind Kumar Shukla,IFTM University 6 . Parveen Banu N,Bapuji Institute of Engineering and Technology 7 . Shaik Shafi,B V Raju Institute of Technology 8 . Kakirala Durga Bhavani,SRMIST 9 . Mahesh Kumar A S,PES College of Engineering 10 . Rajesh A S,Maharaja Institute of Engineering 11 . Mohammed Ali,Mysuru Royal Institute of Technology
TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE BASED AUTONOMOUS PEST DETECTION IN SMART AGRICULTURAL FARMS
FIELD OF INVENTION	COMPUTER SCIENCE
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E-MAIL (UPDATED Online)	
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REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	16/07/2021

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Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

Filed → Published → RQ Filed → Under Examination → Disposed

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Annexure 7(c)

List of Consultancy Projects

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CONSULTANCY

(2023-24, 2022-23 & 2021-22)

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Telephone: 0591-2360817, 2360818 Email: info@iftmuniversity.ac.in Website: www.iftmuniversity.ac.in

Summary of Consultancy Projects in last 3 years

(2023-24, 2022-23 & 2021-22)

School	2023-24	2022-23	2021-22	Total
Faculty of Pharmacy	7	2	7	**16**
School of Agricultural Sciences & Engineering	1	3	4	**8**
School of Biotechnology	1	1	1	**3**
School of Business Management	4	-	4	**8**
School of Computer Science & Applications	1	4	11	**16**
School of Engineering & Technology	-	-	3	**3**
School of Sciences	-	1	6	**7**
Total	**14**	**11**	**36**	**61**

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LIST OF CONSULTANCY PROJECTS
SESSION: 2023-24

Name of the consultant	Name of consultancy project	Consulting/Sponsoring agency	Revenue generated (in ₹)
Dr. Asheesh Kumar Gupta, Mr. Dinesh Kumar, Dr. Shivangi Singh	Establishment of In-Process Quality Assurance(IPQA) Department in the Company	SMS Vaidji Pharmaceuticals, Bilari-244411, Moradabad (U.P); 7017911804	450000
Dr. Mukesh Kumar Singh, Mrs. Pooja Malik, Mr. Sunil Kumar Tiwari, Mr. Anesh Sagar	Streamlining Patient Care: Hospital Management Systems and Pharmacy Integration in Contemporary Healthcare"	OncoCare Cancer Super Speciality Hospital, Amroha, Uttar Pradesh, India, Mob.: 9758449955	250000
Dr. Prashant Upadhyay, Dr. Divaker Shukla, Ms. Srishti Goyal	Validation and Quality Control of Equipments in Hospital	Care Hospital, Sitapur Road, Lucknow, U.P. India. Mob.: 8960802062	500000
Mr. Aditya Sharma, Dr. Prevesh Kumar,Mrs. Richa Saxena	Marketing strategy and planning to boost the sale of Polymers in NCR region"	Aartech Consultancy LTD PVT Noida- 110096. India, Mob.: 9999986568	200000
Dr. Mhaveer Singh, Ms. Tahira Sultan, Mr. Raj Kumar Singh Bharti	Promotion of recently launched products and development of marketing strategy	Varex Pharma LLP. Hari Nagar Extn. New Delhi-110064, India. Mob.: 9018911811	500000
Mrs. Pooja Saini, Dr. Pawan Singh,Mr. Swatantr Bahadur Singh	Strategic Marketing and Sales Enhancement Plan for Boosting Nature Pain Relief Oils in Hospitals across the East UP Region	Kanha Nature Oils. Bahadurgarh-124507,Haryana, India, Mob.: 9810805866	400000
Mrs. Pooja Malik, Dr. Munesh Mani, Dr. Navneet Verma, Mr. Munna Singh	Medication and Patient safety while MRI and CT Scan	Advanced Amit MRI & CT Scan Centre, Moradabad, U.P. India. Mob.: 7351069504	200000

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Name of the consultant	Name of consultancy project	Consulting/Sponsoring agency	Revenue generated (in ₹)
Dr. Rakesh K Yadav, Dr. Sanjay K Singh	Business Strategy & Operational Efficiency for Dalitmat Foundation	Dalitmat Foundation, Moradabad-244001 U.P; 8750312690	300000
Dr. Megha bhatia, Dr. Swati Rai	Improving Operational Efficiency, Streaming Business Processes and Enhancing Strategic Decision Making at JARDS	Jubilant Agriculture Rural Development Society (JARDS)	350000
Dr. Himanshu Gupta, Dr. Bhuwan Gupta	Marketing & Sales Personnel Training Program at Varex Infotainment	Varex Infotainment, Sector 108, Noida-201304; 9999451661	450000
Dr. Aarti Garg, Dr. Nidhi Chaudhary	Transportation, Logistics, Supply Chain and Storage Management in Sahyog Logistics	Sahyog Logistics Solutions Private Limited, IP Extension, New Delhi-110092; 011-22725854	400000
Dr. Vinod Kumar Dhangrah, Dr. Kuldeep Kumar Bhargav, Dr. Shubham Gupta	Landscape Garden Desinging	New Sai Agro, Moradabad-244001;0591-2480344	250000
Dr. Abhishek Kumar Mishra, Dr. Bharat Bhushan Agarwal	Campus-wide networking and internet facility	Ojas Hospital and Panchkarm Center	500000
Ms. Kanchan Lakhera, Ms. Anubhuti Tripathi	Food Adultration, Quality and Compositional Analysis	Bizz Vitals, 412, First Floor, Patparganj, Delhi; 7084591626	450000

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LIST OF CONSULTANCY PROJECTS
SESSION: 2022-23

Name of the consultant	Name of consultancy project	Consulting/Sponsoring agency	Revenue generated (in ₹)
Dr. Mukesh Kumar Singh	Development and characterization of polyherbal formulation for wound healing	Mr. Azhar Danish Khan, Research scholar (Ph.D), Institute of Pharmacy Ram-Eesh institute of Voc. & Tech. Education, Greater Noida,Gautam Budh Nagar (UP),	5000
Dr. Sukirti Upadhyay	Quality standards and biological evaluation of asava and aristha included in ayurvedic formulary	Mr. Bhaskar Kumar, Research Scholar (Ph.D), Radha Govind Institute of Pharmacy, Akroli, Chandausi, Moradabad, U.P.	5000
Dr. A. N. Chaubey	To deliver lecture of trainee participants	M/s JARDAS-Agriclinics and Agri Business Centre Training Institute, Near Rail Vihar Colony, Manoharpur, Uttar Pradesh,	51000
Dr. Krishan Pal	Propagation of Cycas through offsets with low mortality rate	New Green Tech, Nursery, Sihali Jagir, Gajrola, UP	100000
Dr. Ramesh Pal	Performance evaluation of Laser Land Leveller Under the different moisture conditions.	M/s Shiva Agro Industries, Shop. No. 35 and 36, Nai Anaj Mandi, Garh Road, Hapur,-245101, Uttar Pradesh	100000
Dr. Swapna Kumar Srivastava	Enzyme Quantification	Dr. Siddharth Arora, Founder and CEO, Fermentech Lab Pvt. Ltd., IIT Rorkee.	30000
Dr. Bharat Bhushan Agarwal	Development of ERP for Hospital Management System	Dr. Vikrant Chauhan, Manager, Ojas Hospital, Fazalpur, Amroha,	35000

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Name of the consultant	Name of consultancy project	Consulting/Sponsoring agency	Revenue generated (in ₹)
Dr. Deepankar Bharadwaj	Designing and implementation of "Biometric Attendance Management System and Face Recognition System,	Mr. Rajeev Chaudhary, Director, Varex Infotainment Pvt. Ltd., Noida	150000
Dr. Devendra Singh	Mobile Application Development for Training & Development	Dr. Saurabh, Manager, Croma Campus Training & Development.	100000
Mr. Rajdeep Singh	Consultancy in development of Website for rural Development	Mr. Sonu Singh ,Manager, Udgifoundation, Agwanpur, Moradabad, Utaar Pradesh,	100000
Dr. Ashok Kumar	Development and maintenance of plant nursery	Jagan singh, Kunal Nursery, Village- Tar ka Mahraj, Post & Tehsil-Tanda, District-Rampur	20000

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LIST OF CONSULTANCY PROJECTS
SESSION: 2021-22

Name of the teacher consultant	Name of consultancy project	Consulting/Sponsoring agency with contact details	Revenue generated (in ₹)
Dr. Megha Bhatia	Issues of Marketing and Redesigning Products	Agri Clinics Agri Business Centre Cell	20000
Dr. Himanshu Gupta	Essentials of Project Management Strategies	Agri Clinics Agri Business Centre Cell	20000
Dr. Arkja Singh	Income Tax and Finance	Agri Clinics Agri Business Centre Cell	20000
Dr. Bharat B. Agarwal	Development of Software	Ojas Hospital, Amroha,	25000
Mr. Rajdeep Singh	Development of ERP and Website	Desighner Decorative	15000
Mr. Vimal Chauhan	Development of ERP	Dharupur Gram Udyog Sansthan, Amantabad, Moradabad	125000
Mr. Suneel Kumar			
Dr. Arvind Shukla			
Mr. Rajdeep Singh			
Dr. Phool Chand	Pharmacological Evaluation of Herbal Extracts for Suppression of Biomarkers in Molecular Pathogenesis of Autoimmune Disorders (Psoriasis)	Vishveshwarya, Group of Institutions	5000
Dr. Phool Chand	Phyto-chemical Investigation and Pharmacological Screening of Vitex Negundo for its Anti-gout Activity	BIU College of Pharmacy	5000
Dr. Phool Chand	Neuroprotective Effect of Entacapone in Peripheral Diabetic Neuropathy in	BIU College of Pharmacy	5000

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Name of the teacher consultant	Name of consultancy project	Consulting/Sponsoring agency with contact details	Revenue generated (in ₹)
	Streptozoticin induced type-2 diabetic rats		
Dr. Phool Chand	Phyto-chemical Investigation and Anti-fluorosis Activity of Cassia tora in Drinking Water	BIU College of Pharmacy	5000
Dr. Phool Chand	Formulation and Evaluation of Floating Muco-adhesive Microspheres of an Anti-ulcer drug	Vishveshwarya College of Pharmacy	5000
Mr. Suneel Kumar	Development of ERP System	Saraswati Institute of Professional Studies	75000
Mr. Rajdeep Singh			
Mr. Nadeem Ahmad	Designing & Drawing of Products	Shri Hari Traders, Agra	30000
Mr. Nadeem Ahmad	Testing of Cubes	RA Associates, Pune	52500
Dr. Ramesh Pal	Rotavator Performance Test	Shiva Agro Industries	20000
Mr. Harpreet Singh Chawla	Development of ERP System/Website	Jageshvati Educational Trust	50000
Dr. Himanshu Gupta	Process re-engineering and process improvement studies	OPULENT Wires & Cables Pvt. Ltd.	40000
Dr. Anurag Kumar	Setting up the Chemistry Lab	Satyavrat Smarak Inter College, Bijnore	10000
Dr. Harpreet Singh	Synthesis and Computational Studies of Some New Heterocyclic Compounds of Biological Interest	Sri Ram College of Pharmacy	5000
Mr. Ankur Jain	Consultancy Annual Maintenance Contract for the Website of our School	Abhinav Vidhyalaya, Narayanpur Deva, Bilari, MBD	10000

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Name of the teacher consultant	Name of consultancy project	Consulting/Sponsoring agency with contact details	Revenue generated (in ₹)
Dr. Devendra Singh Mr. Harpreet Singh Chawla	Development of ERP	Crona Campus Training & Development (P) Ltd.	41000
Dr. Swapan Kumar Srivastava	Enzyme Quantification	The Fermentech Labs Pvt. Ltd.	5300
Dr. Harpreet Singh	Pharmacognostical Phytochemical and Pharmacological Evaluation of *Erythrina Variegata* L. Leaves	Keshlata College of Education, Bareilly	5000
Dr. Ramesh Pal	CAM power weeder performance test	Competent Agriculture Machinery	20000
Mr. Dharmraj Singh	Expertise assistance & Designing & Drawing of some products	A1 Blowers India Pvt. Ltd. Delhi	30000
Dr. Trapti Pandey	Child Development & Psychology	Virtuoso Vista LLP, Ghaziabad	10000
Dr. Riddhi Garg	Academic Consultant	YMS (PG) College, Mandi Dhanaura, Amroha	10000
Dr. Aditya Narayan Chaubey	To deliver the lecture to trainee participants	Jubilant Agriculture Rural Development Society	35000
Dr. Ashok Kumar	Developing and maintaining the nursery of plants	Pushpa Nursery, Narkhera, Bilaspur, Rampur	10000
Ms. Sandhya Sharma	Developing and maintaining the Poultry Farm	Daksh Poultry Farm, Narkhera, Bilaspur, Rampur	10000
Dr. Bharat B. Agarwal	Development of ERP Software	M/S Yesh Enterprises, MBD	65000
Dr. Bharat B. Agarwal	Development of ERP Software	GANKAN Private Ltd., MBD	30000

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Name of the teacher consultant	Name of consultancy project	Consulting/Sponsoring agency with contact details	Revenue generated (in ₹)
Dr. Bharat B. Agarwal	Development of ERP Software	Agarwal Associates, MBD	35000
Mr. Rajdeep Singh	Development of ERP Software for CPS Enterprises	CPS Enterprises, MBD	50000
Dr. Himanshu Gupta	Marketing Challenges: Consumer behavior and customer psychology	United Republic Services Pvt. Ltd. Delhi	66000
Dr. Krishan Pal	Propagation of Bougainvillea through cutting with low mortality rate	New Green Tech Nursery, Sihali Jagir Gaugrola	30000

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